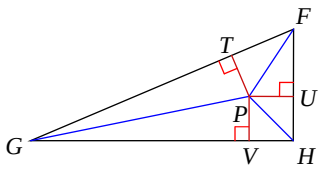
Geometry Name_____

Assignment

Date_____ Period____

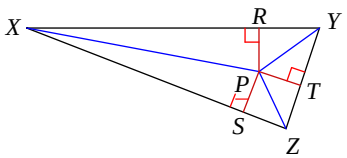
Each figure shows a triangle with its three angle bisectors intersecting at point P.

1) $PU = 1$ and $HP = 2$.
Find HU.



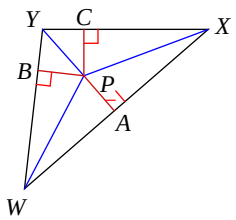
A) 2.64 B) 2.24
C) 1.73 D) 1.41

2) $PS = 3.61$ and $XP = 7$.
Find XS.



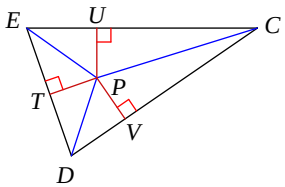
A) 6 B) 7.88
C) 9.22 D) 4.79

3) Find PB if $YB = 8$ and $YP = 10$.



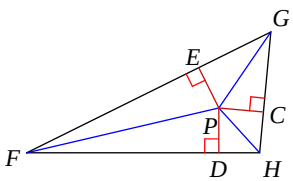
A) 11.66 B) 6
C) 4.36 D) 12.81

4) $CU = 3$ and $CP = 4$.
Find PU.



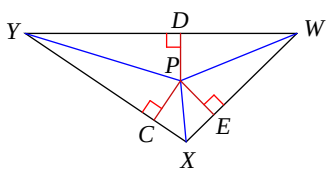
A) 5 B) 2.65
C) 4.8 D) 1.41

5) $FD = 4$ and $FP = 5$.
Find PD.



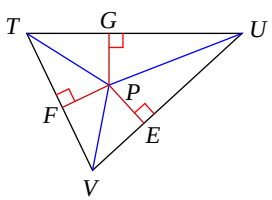
A) 2.65 B) 3
C) 4.12 D) 6.4

6) Find PD if $WD = 3$ and $WP = 3.16$.



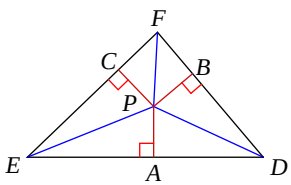
A) 0.99 B) 3.31
C) 4.36 D) 2.83

7) Find TP if $PF = 1$ and $TF = 2$.



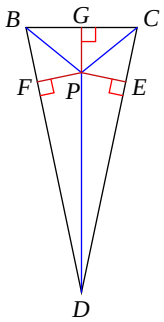
A) 4.24 B) 3
C) 1.73 D) 2.24

8) $DB = 12$ and $DP = 13$.
Find PC.



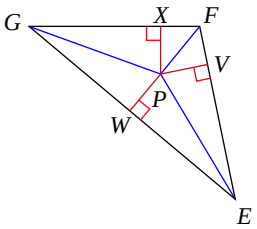
A) 17.69 B) 13.93
C) 10.91 D) 5

9) $PG = 3$ and $BP = 5$.
Find BF.



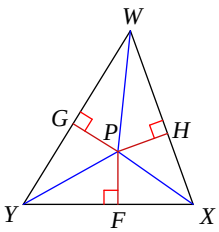
A) 2.83 B) 4
C) 5.83 D) 2.65

10) $PV = 1$ and $GW = 3$.
Find GP.



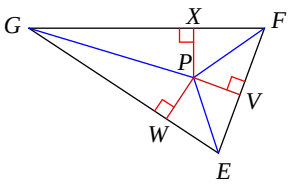
A) 2.83 B) 3.31
C) 3.16 D) 4.36

11) $PF = 1$ and $WP = 2.24$.
Find WG.



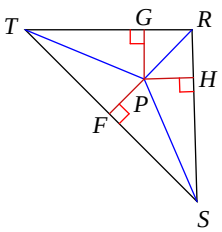
A) 2.45 B) 2
C) 3 D) 1.73

12) $PW = 2$ and $GP = 6$.
Find GW.



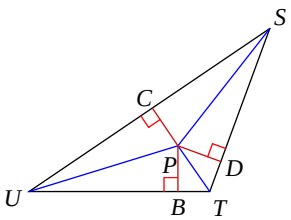
A) 5.29 B) 6.32
C) 8.25 D) 5.66

13) $PG = 6$ and $RP = 10$.
Find RG.



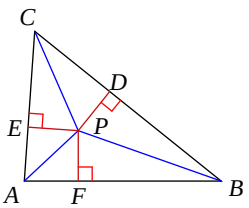
A) 8 B) 5.29
C) 11.66 D) 12.81

14) $PC = 1$ and $SC = 4$.
Find SP.



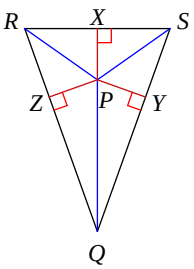
A) 5.74 B) 3.87
C) 4.12 D) 4.24

15) Find CE if $PE = 2$ and $CP = 4$.



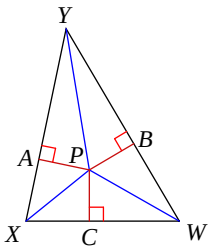
A) 4.47 B) 3.46
C) 2.82 D) 5.29

16) Find QP if $PY = 5$ and $QY = 12$.



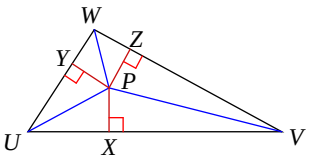
A) 10.91 B) 13
C) 17.69 D) 13.93

17) $PB = 2$ and $WB = 3$.
Find WP.



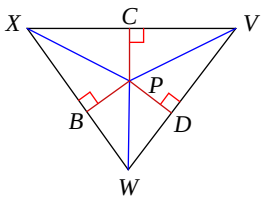
A) 4.13 B) 4.69
C) 2.24 D) 3.61

18) Find WP if $PY = 4$ and $WY = 3$.



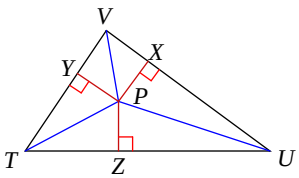
A) 5.83 B) 5
C) 6.4 D) 2.65

19) Find PC if $VC = 2$ and $VP = 3$.



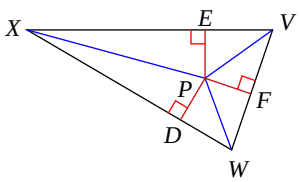
A) 1.01 B) 9
C) 3.74 D) 2.24

20) Find PY if $VY = 1$ and $VP = 2$.



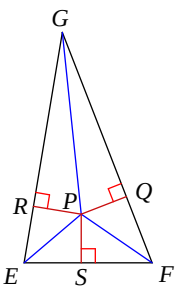
A) 2.64 B) 1.41
C) 4 D) 1.73

21) $PF = 2$ and $VE = 2$.
Find VP.



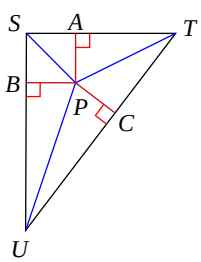
A) 3.47 B) 2.83
C) 10 D) 0

22) Find GR if $PR = 2$ and $GP = 7$.



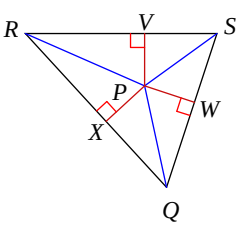
A) 6.41 B) 7.28
C) 6.71 D) 9.7

23) Find SB if $PA = 3$ and $SP = 4$.



A) 4.8 B) 1.41
C) 5 D) 2.65

24) Find PW if $QW = 2.83$ and $QP = 3$.



A) 3.16 B) 1
C) 2.65 D) 4.12

Answers to Assignment (ID: 1)

1) C
2) A
3) B
4) B
5) B
6) A
7) D
8) D
9) B
10) C
11) B
12) D
13) A
14) C
15) B
16) B
17) D
18) B
19) D
20) D
21) B
22) C
23) D
24) B

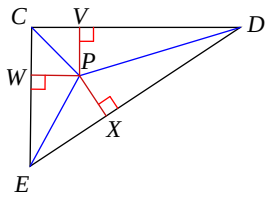
Geometry Name_____

Assignment

Date_____ Period____

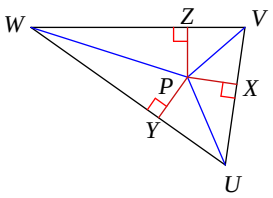
Each figure shows a triangle with its three angle bisectors intersecting at point P.

1) $CW = 4$ and $CP = 5$.
Find PV.



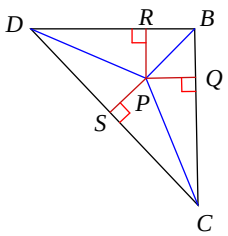
A) 3 B) 5.83
C) 3.16 D) 2.65

2) $WY = 12$ and $WP = 13$.
Find PY.



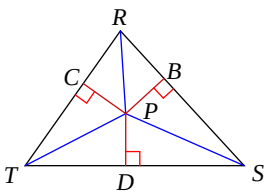
A) 17.69 B) 7
C) 4.36 D) 5

3) Find BP if $PR = 2$ and $BR = 2$.



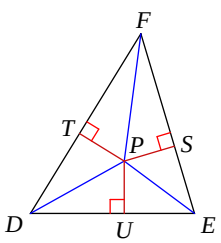
A) 0 B) 2.83
C) 3.47 D) 2.65

4) Find PC if $RC = 8$ and $RP = 10$.



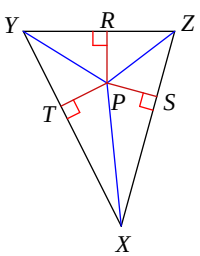
A) 6 B) 5.29
C) 11.66 D) 12.81

5) $PT = 5$ and $FT = 12$.
Find FP.



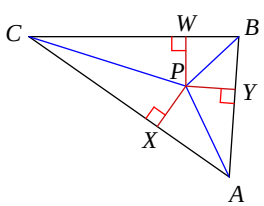
A) 13.93 B) 10.91
C) 17.69 D) 13

6) $PR = 5$ and $XP = 13$.
Find XS.



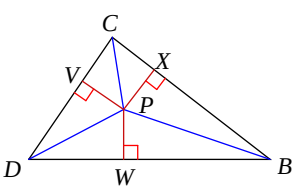
A) 8 B) 13.93
C) 12 D) 4.24

7) $PY = 1$ and $CP = 5$.
Find CX.



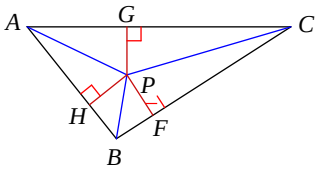
A) 4.9 B) 4.8
C) 7 D) 3.61

8) $PW = 1$ and $DP = 4$.
Find DW.



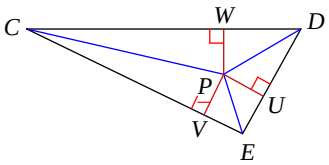
A) 3.61 B) 5.57
C) 3.74 D) 3.87

9) $PG = 2$ and $CG = 6$.
Find CP.



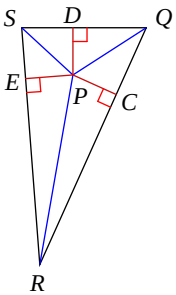
A) 8.71 B) 5.66
C) 6.32 D) 6.63

10) Find CV if $PU = 1$ and $CP = 7$.



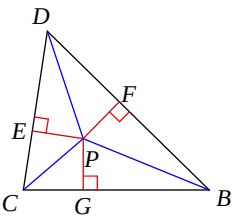
A) 6.86 B) 7.07
C) 6.93 D) 4.36

11) $QD = 2$ and $QP = 3$.
Find PD.



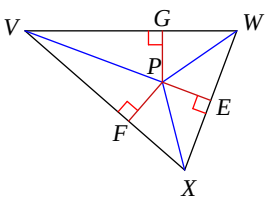
A) 3.61 B) 2.24
C) 2 D) 1.01

12) Find BP if $PF = 2$ and $BF = 4$.



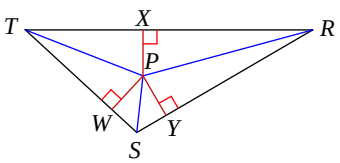
A) 4.9 B) 4.47
C) 3.46 D) 2

13) $VF = 5$ and $VP = 6$.
Find PE.



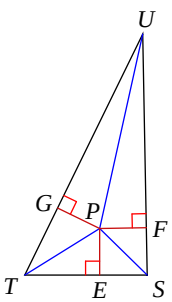
A) 3.32 B) 6.86
C) 2 D) 7.81

14) Find RX if $PX = 2$ and $RP = 7$.



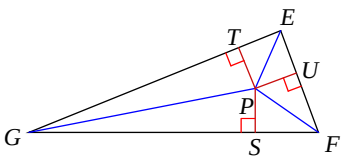
A) 6.71 B) 7.28
C) 6.41 D) 9.7

15) $PF = 4$ and $SF = 4.47$.
Find SP.



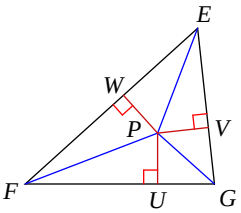
A) 3.87 B) 6
C) 4.24 D) 2

16) Find ET if $PT = 3$ and $EP = 4.24$.



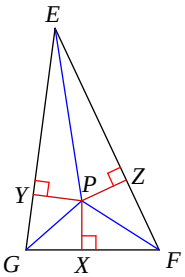
A) 4 B) 5.19
C) 3 D) 0

17) $PW = 2$ and $GP = 4$.
Find GV.



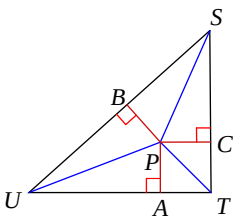
A) 11 B) 4.36
C) 3.46 D) 4.47

18) $PY = 1$ and $EY = 4$.
Find EP.



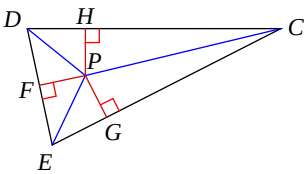
A) 5.74 B) 3.87
C) 2 D) 4.12

19) Find SB if $PA = 1$ and $SP = 3$.



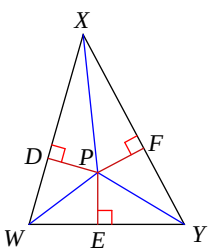
A) 4.12 B) 2.83
C) 2.65 D) 3.16

20) $EG = 3.46$ and $EP = 4$.
Find PH.



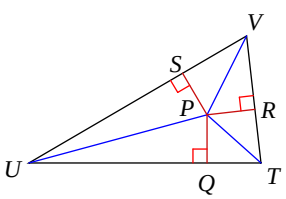
A) 5.29 B) 4.48
C) 2.82 D) 2.01

21) Find WE if $PF = 3$ and $WP = 5$.



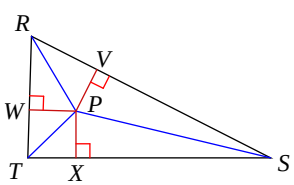
A) 4 B) 6.4
C) 2.65 D) 5.83

22) $TR = 1$ and $TP = 2$.
Find PR.



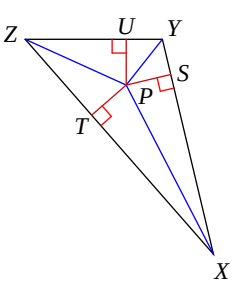
A) 2.64 B) 2.24
C) 1.73 D) 1.41

23) $RW = 3$ and $RP = 4$.
Find PX.



A) 5 B) 2.65
C) 3.16 D) 1.41

24) Find ZP if $PT = 1$ and $ZT = 2$.



A) 2.24 B) 1.73
C) 2.45 D) 3

Answers to Assignment (ID: 2)

1) A
2) D
3) B
4) A
5) D
6) C
7) A
8) D
9) C
10) C
11) B
12) B
13) A
14) A
15) B
16) C
17) C
18) D
19) B
20) D
21) A
22) C
23) B
24) A

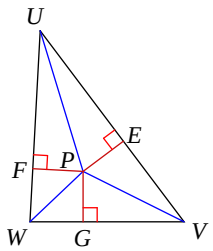
Geometry Name_____

Assignment

Date_____ Period____

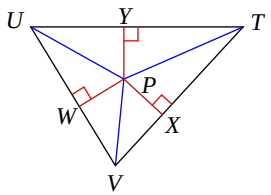
Each figure shows a triangle with its three angle bisectors intersecting at point P.

1) $UF = 4$ and $UP = 5$.
Find PF.



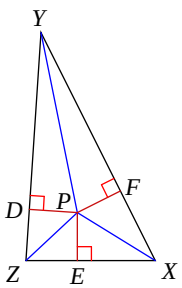
A) 3 B) 3.61
C) 2.65 D) 5.83

2) $PX = 1$ and $VX = 1$.
Find VP.



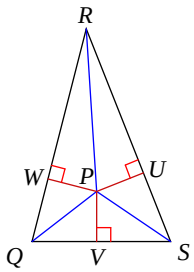
A) 0 B) 12
C) 1.41 D) 1.73

3) Find ZE if $PE = 1$ and $ZP = 2$.



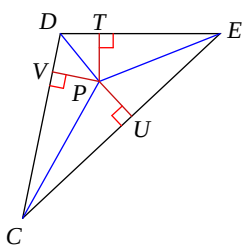
A) 1.73 B) 2.83
C) 2.64 D) 1.41

4) $PV = 2$ and $QV = 3$.
Find QP.



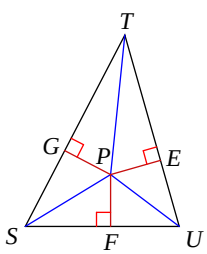
A) 3.61 B) 4.13
C) 3.32 D) 2.24

5) Find CP if $PV = 1$ and $CU = 4$.



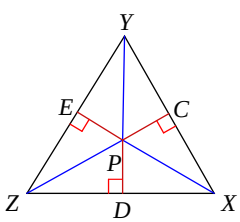
A) 4.12 B) 3.32
C) 2.45 D) 3.87

6) Find SP if $PF = 3$ and $SF = 4$.



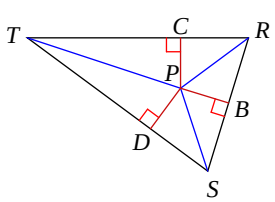
A) 5 B) 2.65
C) 5.83 D) 6.4

7) $PD = 2$ and $ZD = 4$.
Find ZP.



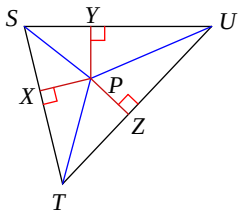
A) 3.46 B) 4.9

8) Find RC if $PB = 2$ and $RP = 3$.



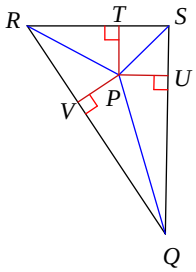
A) 2.24 B) 1.01
C) 4 D) 3.74

9) Find PY if $UY = 2.83$ and $UP = 3$.



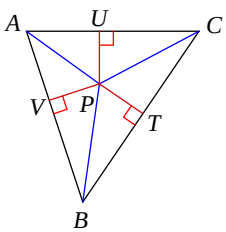
A) 2.45 B) 2.65
C) 3.16 D) 1

10) $PT = 1$ and $QU = 5$. Find QP.



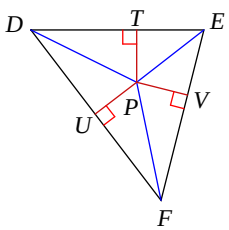
A) 5.1 B) 4.9
C) 5.2 D) 7.14

11) Find CU if $PU = 3$ and $CP = 6$.



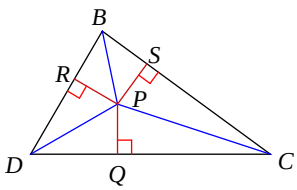
A) 7.94 B) 6.71
C) 4.25 D) 5.2

12) Find DU if $PU = 2$ and $DP = 4$.



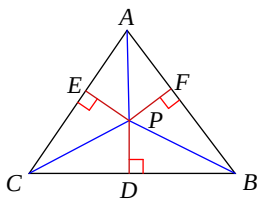
A) 3.46 B) 2.82
C) 4.47 D) 1.73

13) Find BP if $PR = 3$ and $BR = 2.65$.



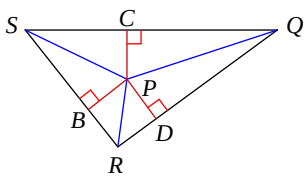
A) 1.41 B) 5
C) 4.8 D) 4

14) Find AE if $PF = 1$ and $AP = 3$.



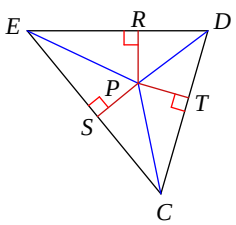
A) 3.16 B) 2.65
C) 3.46 D) 2.83

15) $PD = 1$ and $QC = 3$. Find QP.



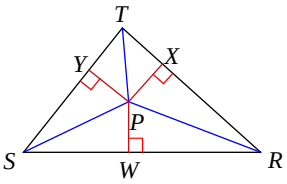
A) 2.83 B) 3.16
C) 3.87 D) 3.32

16) Find PT if $ES = 12$ and $EP = 13$.



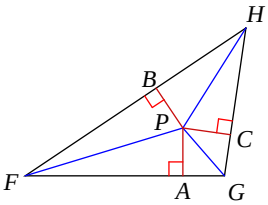
A) 13.93 B) 5
C) 2.65 D) 10.91

17) $PX = 3$ and $RX = 7$.
Find RP.



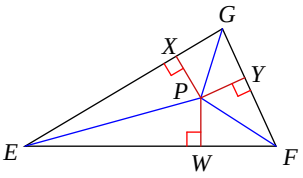
A) 7.62 B) 10.35
C) 6.32 D) 8.19

18) $PB = 3$ and $HP = 8$.
Find HB.



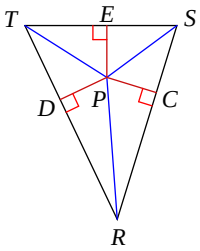
A) 7.42 B) 10.91
C) 2.45 D) 6.79

19) Find PX if $GX = 1$ and $GP = 2$.



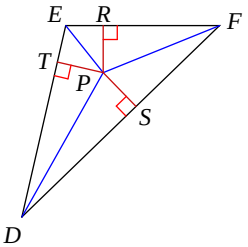
A) 1.73 B) 1.41
C) 2.64 D) 2.24

20) Find PE if $TD = 2$ and $TP = 3$.



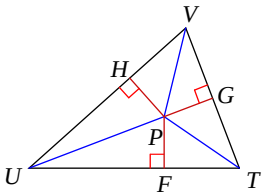
A) 3.61 B) 3.74
C) 1.01 D) 2.24

21) $PS = 3$ and $DP = 5$.
Find DS.



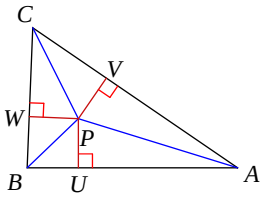
A) 5.83 B) 14
C) 4 D) 2.65

22) $TG = 3$ and $TP = 4$.
Find PH.



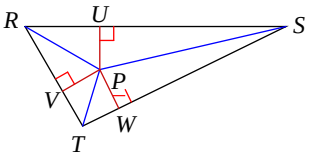
A) 1.41 B) 2.65
C) 5 D) 4.8

23) $PU = 1$ and $AP = 5$.
Find AV.



A) 4.9 B) 5.1
C) 7 D) 4.8

24) $PV = 1$ and $RV = 2$.
Find RP.



A) 2 B) 2.45
C) 2.24 D) 1.73

Answers to Assignment (ID: 3)

1) A
2) C
3) A
4) A
5) A
6) A
7) D
8) A
9) D
10) A
11) D
12) A
13) D
14) D
15) B
16) B
17) A
18) A
19) A
20) D
21) C
22) B
23) A
24) C

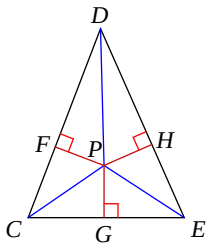
Geometry Name_____

Assignment

Date_____ Period____

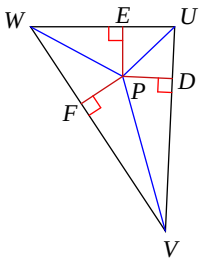
Each figure shows a triangle with its three angle bisectors intersecting at point P.

1) Find CP if $PG = 1$ and $CG = 1$.



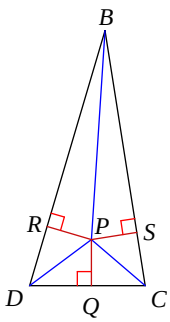
A) 0 B) 1.41
C) 4.24 D) 1.73

2) Find UE if $PE = 3$ and $UP = 4$.



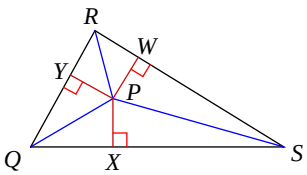
A) 2.65 B) 1.41
C) 5 D) 4.8

3) $BR = 6$ and $BP = 7$. Find PR.



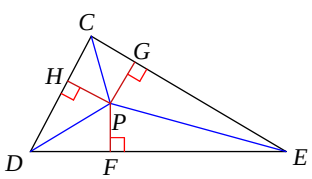
A) 7.88 B) 4.79
C) 3.61 D) 9.22

4) Find QP if $PY = 1$ and $QX = 2$.



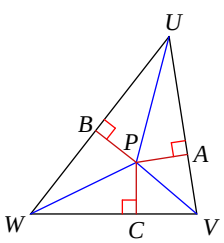
A) 3 B) 2.45
C) 2.24 D) 1.73

5) Find EP if $PG = 1$ and $EG = 5.92$.



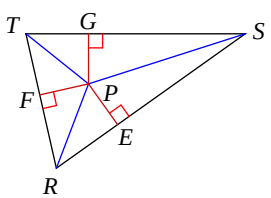
A) 5.83 B) 6
C) 8.43 D) 6.08

6) Find UP if $PB = 5$ and $UB = 12$.



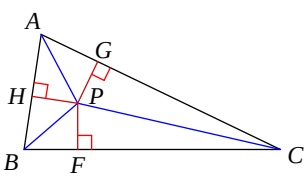
A) 13 B) 13.93
C) 10.91 D) 17.69

7) Find TP if $PG = 2$ and $TF = 2$.



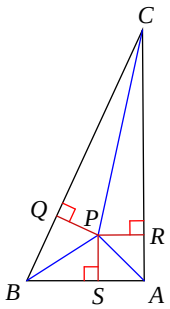
A) 3.47 B) 4.36

8) Find CG if $PG = 1$ and $CP = 6$.



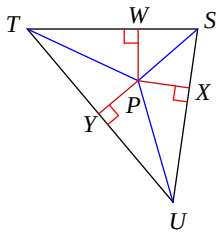
A) 6.08 B) 2.65
C) 5.83 D) 5.92

9) Find AR if $PR = 1$ and $AP = 2.24$.



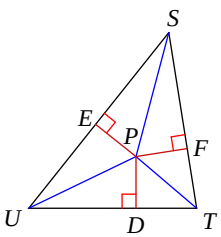
A) 1.73 B) 2
C) 3 D) 2.45

10) Find UX if $PW = 5$ and $UP = 13$.



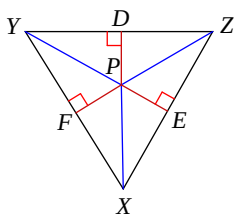
A) 13.93 B) 17.69
C) 10.91 D) 12

11) Find SP if $PE = 2$ and $SE = 4$.



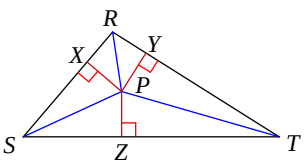
A) 6 B) 4.47
C) 4.9 D) 3.46

12) Find XE if $PE = 3$ and $XP = 5$.



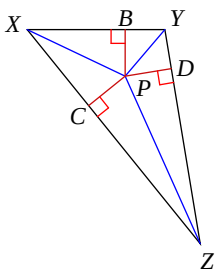
A) 2.83 B) 4
C) 6.4 D) 2.65

13) Find TP if $PZ = 1$ and $TY = 4$.



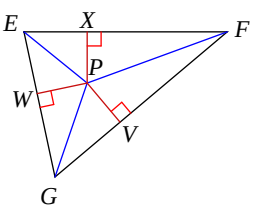
A) 3.87 B) 4.24
C) 5.74 D) 4.12

14) Find XC if $PB = 1$ and $XP = 3$.



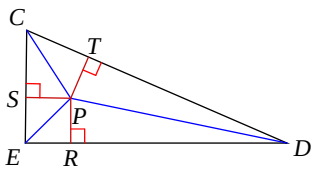
A) 2.83 B) 2.65
C) 3.16 D) 2

15) Find EP if $PV = 2.24$ and $EW = 2$.



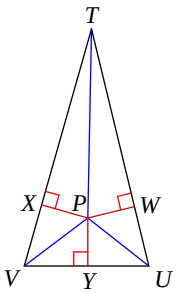
A) 1.01 B) 3.32
C) 3 D) 3.61

16) $PS = 2$ and $CP = 3$. Find CS.



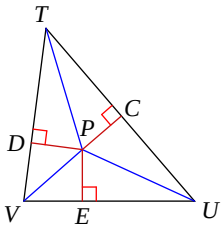
A) 2.24 B) 3.61
C) 3.74 D) 1.01

17) Find TX if $PX = 1$ and $TP = 5$.



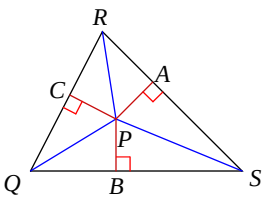
A) 5.1 B) 3.16
C) 4.8 D) 4.9

18) $PD = 1$ and $TP = 4$. Find TD.



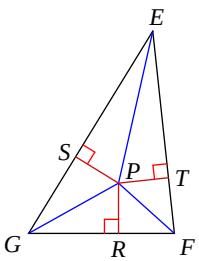
A) 3.74 B) 3.87
C) 4.12 D) 5.57

19) $QB = 2$ and $QP = 2.24$. Find PC.



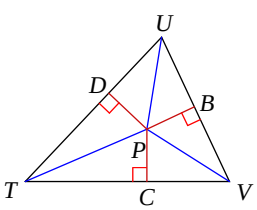
A) 1.73 B) 1.01
C) 3 D) 2.46

20) Find PR if $ES = 12$ and $EP = 13$.



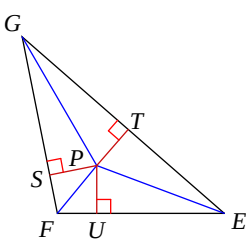
A) 3.16 B) 5
C) 13.93 D) 17.69

21) Find PB if $TC = 3$ and $TP = 3.16$.



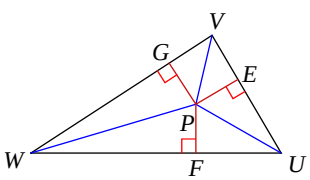
A) 2.83 B) 0.99
C) 2.24 D) 3.31

22) Find PS if $ET = 5.66$ and $EP = 6$.



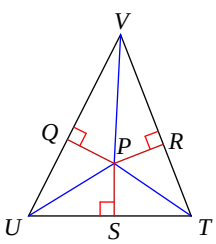
A) 8.25 B) 6.32
C) 5.3 D) 1.99

23) Find PF if $WF = 5$ and $WP = 6$.



A) 3.74 B) 3.61
C) 3.32 D) 6.86

24) Find TP if $PQ = 3$ and $TR = 4$.



A) 5 B) 4.36
C) 3.32 D) 5.83

Answers to Assignment (ID: 4)

1) B
2) A
3) C
4) C
5) B
6) A
7) C
8) D
9) B
10) D
11) B
12) B
13) D
14) A
15) C
16) A
17) D
18) B
19) B
20) B
21) B
22) D
23) C
24) A

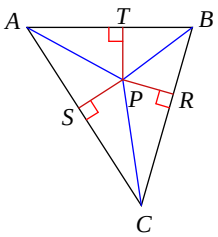
Geometry Name_____

Assignment

Date_____ Period____

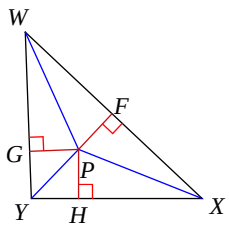
Each figure shows a triangle with its three angle bisectors intersecting at point P.

1) $PS = 2$ and $AS = 3$.
Find AP.



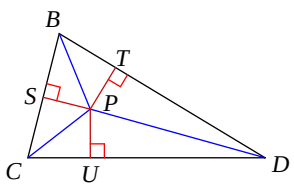
A) 2.24 B) 3.61
C) 4.69 D) 4.13

2) Find WG if $PG = 3$ and $WP = 5$.



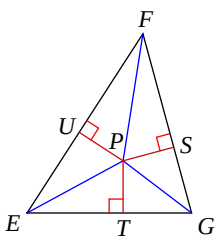
A) 2.45 B) 4
C) 2.65 D) 6.4

3) $PT = 2$ and $DT = 6$.
Find DP.



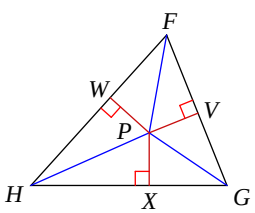
A) 8.71 B) 6.32
C) 6.63 D) 5.66

4) $ET = 3$ and $EP = 3.61$.
Find PT.



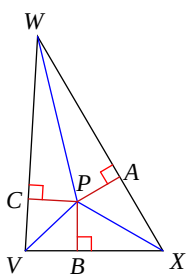
A) 4.12 B) 2.01
C) 2.23 D) 4.13

5) Find FP if $PW = 1$ and $FW = 2$.



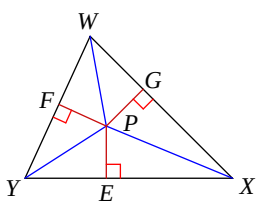
A) 2.24 B) 3
C) 1.73 D) 2.45

6) $VB = 4$ and $VP = 5$.
Find PB.



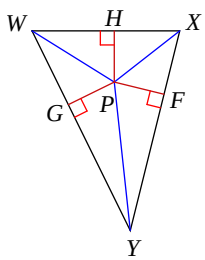
A) 2.65 B) 6.4
C) 3 D) 5.83

7) Find WP if $PF = 4$ and $WF = 5$.



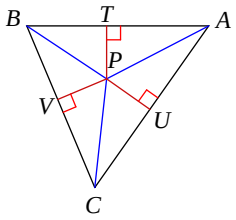
A) 6.4 B) 7.55
C) 8.12 D) 3

8) $PF = 1$ and $WG = 2.83$.
Find WP.



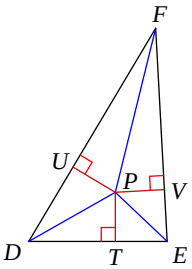
A) 3.16 B) 3.87
C) 3 D) 2.65

9) $PU = 6$ and $CP = 10$.
Find CU.



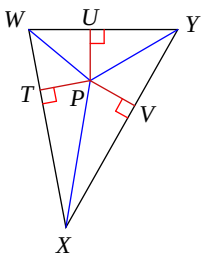
A) 11.66 B) 5.29
C) 8 D) 3.74

10) $FU = 12$ and $FP = 13$.
Find PU.



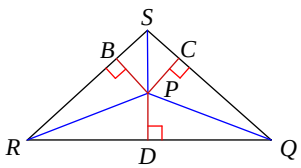
A) 5 B) 17.69
C) 13.93 D) 10.91

11) $PT = 3.32$ and $YP = 6$.
Find YU.



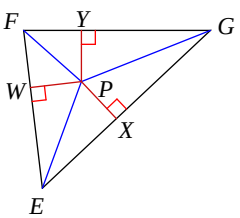
A) 2.65 B) 5
C) 7.81 D) 7

12) $PC = 2$ and $QP = 8$.
Find QC.



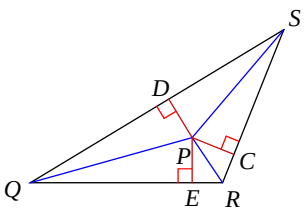
A) 2.45 B) 2.83
C) 7.75 D) 11.14

13) $PX = 3$ and $EP = 8$.
Find EX.



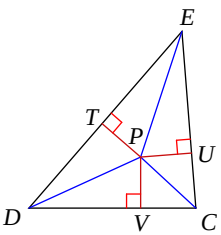
A) 8.54 B) 7.42
C) 10.91 D) 6.79

14) Find SD if $PD = 5$ and $SP = 13$.



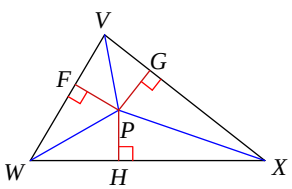
A) 10.91 B) 17.69
C) 12 D) 13.93

15) $PV = 2$ and $CP = 3$.
Find CU.



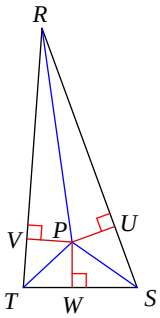
A) 1.01 B) 2.24
C) 3.61 D) 3.74

16) Find XG if $PG = 2$ and $XP = 6.32$.



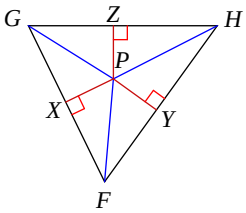
A) 6 B) 6.63
C) 5.66 D) 8.71

17) $PV = 2$ and $RV = 7$.
Find RP.



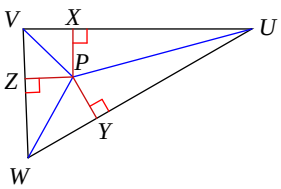
A) 10.1 B) 7.55
C) 6.71 D) 7.28

18) $PY = 1$ and $FP = 3$.
Find FY.



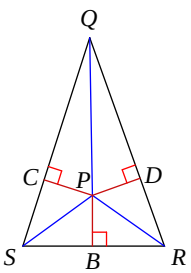
A) 13 B) 2.83
C) 3.16 D) 4.12

19) Find WY if $PY = 2$ and $WP = 5$.



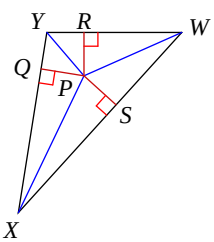
A) 5.39 B) 3.74
C) 4.12 D) 4.58

20) $QC = 7$ and $QP = 8$.
Find PC.



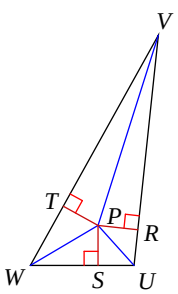
A) 10.63 B) 3.16
C) 5.83 D) 3.87

21) Find WR if $PQ = 1$ and $WP = 4$.



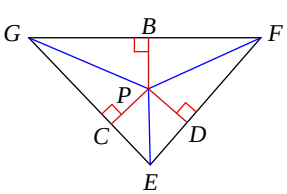
A) 3.74 B) 3.87
C) 5.57 D) 4.12

22) Find PS if $WS = 3$ and $WP = 4$.



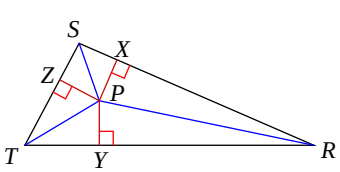
A) 4.8 B) 2.65
C) 1.41 D) 5

23) $PD = 1$ and $GC = 3$.
Find GP.



A) 3.31 B) 4.36
C) 3.16 D) 2.45

24) Find PY if $TY = 2$ and $TP = 3$.



A) 1.01 B) 2.24
C) 3.61 D) 3.74

Answers to Assignment (ID: 5)

1) B
2) B
3) B
4) B
5) A
6) C
7) A
8) C
9) C
10) A
11) B
12) C
13) B
14) C
15) B
16) A
17) D
18) B
19) D
20) D
21) B
22) B
23) C
24) B

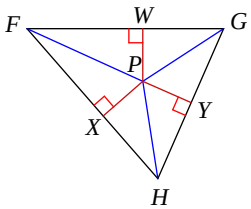
Geometry Name_____

Assignment

Date_____ Period____

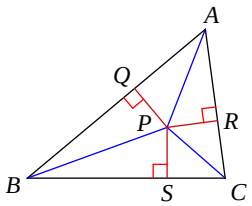
Each figure shows a triangle with its three angle bisectors intersecting at point P.

1) Find FX if $PX = 2$ and $FP = 4$.



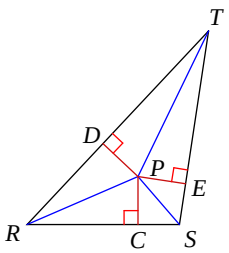
A) 2.82 B) 3.46
C) 4.47 D) 5.29

2) Find CR if $PR = 2$ and $CP = 2.83$.



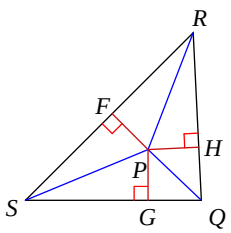
A) 4.58 B) 0
C) 2 D) 3.47

3) $PD = 5$ and $TP = 13$. Find TD.



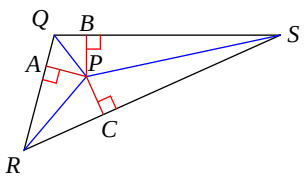
A) 12 B) 17.69
C) 13.93 D) 3

4) Find SP if $PG = 5$ and $SG = 12$.



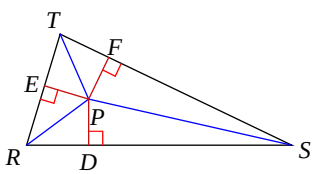
A) 13 B) 10.91
C) 3.32 D) 13.93

5) $PB = 1$ and $SB = 5$. Find SP.



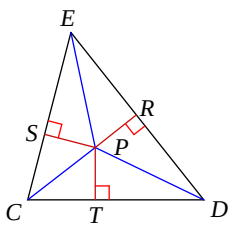
A) 5.2 B) 5.1
C) 1.73 D) 4.9

6) Find TE if $PE = 2$ and $TP = 3$.



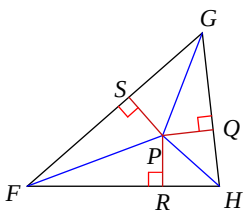
A) 2.24 B) 1.01
C) 3.74 D) 4.58

7) Find ES if $PS = 2$ and $EP = 5$.



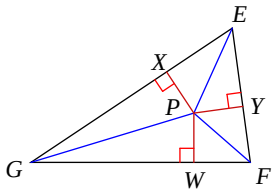
A) 4.58 B) 4.12
C) 5.39 D) 6.78

8) Find PR if $FR = 3$ and $FP = 4$.



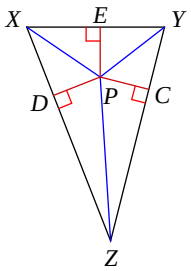
A) 2.65 B) 5
C) 3 D) 4.8

9) $EX = 7$ and $EP = 8$.
Find PX.



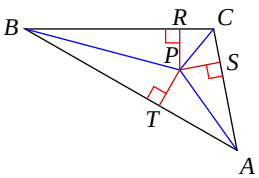
A) 3.87 B) 8.89
C) 5.83 D) 10.63

10) Find XD if $PC = 4$ and $XP = 7$.



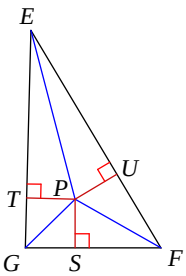
A) 1.73 B) 8.06
C) 5.74 D) 4.12

11) $PT = 1$ and $AP = 3$.
Find AS.



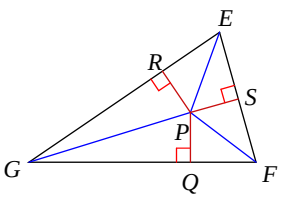
A) 4.12 B) 2.83
C) 2.65 D) 3.16

12) Find ET if $PT = 2$ and $EP = 7$.



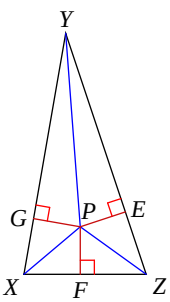
A) 9.7 B) 7.28
C) 6.41 D) 6.71

13) $PR = 1$ and $ER = 2$.
Find EP.



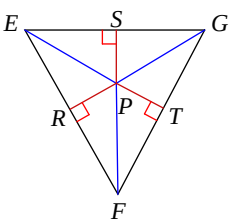
A) 2.45 B) 3
C) 3.46 D) 2.24

14) Find PE if $XF = 1$ and $XP = 2$.



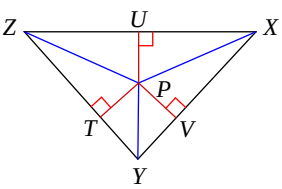
A) 1.41 B) 2.24
C) 1.73 D) 2.64

15) $PS = 3$ and $GP = 5$.
Find GS.



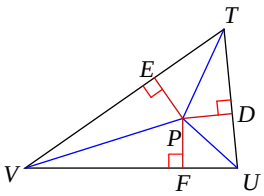
A) 5.83 B) 4
C) 6 D) 4.47

16) $PU = 2$ and $XU = 4$.
Find XP.



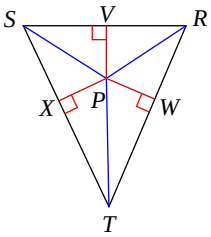
A) 4.9 B) 4
C) 6 D) 4.47

17) Find TE if $PF = 2.65$ and $TP = 4$.



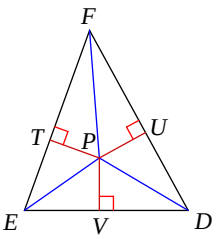
A) 4 B) 3
C) 4.12 D) 4.8

18) $PW = 1$ and $TP = 4$. Find TW.



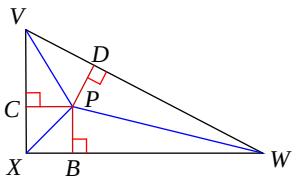
A) 4.47 B) 4.12
C) 3.87 D) 5.57

19) Find PU if $DU = 8$ and $DP = 10$.



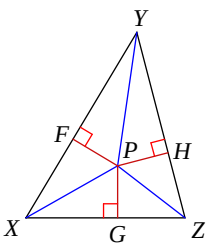
A) 6 B) 11.66
C) 5.29 D) 10

20) Find VP if $PC = 3$ and $VC = 4$.



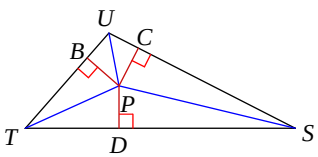
A) 2.65 B) 5
C) 5.83 D) 6.4

21) Find XP if $PG = 2$ and $XG = 3$.



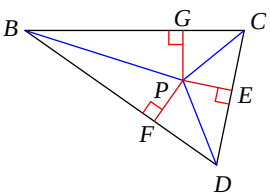
A) 3.61 B) 4.69
C) 2.24 D) 4.13

22) Find SC if $PB = 1$ and $SP = 4.12$.



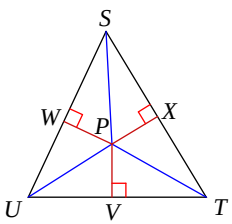
A) 3.87 B) 5.74
C) 4.24 D) 4

23) $PF = 2$ and $BP = 8$. Find BF.



A) 7.75 B) 4.36
C) 8.25 D) 11.14

24) $PW = 3$ and $SW = 5$. Find SP.



A) 4 B) 7.68
C) 5.83 D) 6.56

Answers to Assignment (ID: 6)

1) B
2) C
3) A
4) A
5) B
6) A
7) A
8) A
9) A
10) C
11) B
12) D
13) D
14) C
15) B
16) D
17) B
18) C
19) A
20) B
21) A
22) D
23) A
24) C

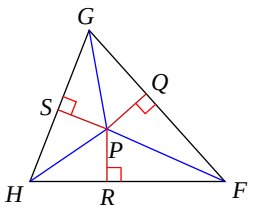
Geometry Name_____

Assignment

Date_____ Period____

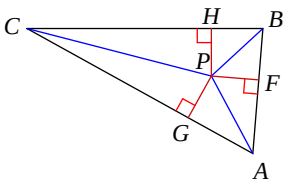
Each figure shows a triangle with its three angle bisectors intersecting at point P.

1) $PQ = 1$ and $HR = 2$.
Find HP.



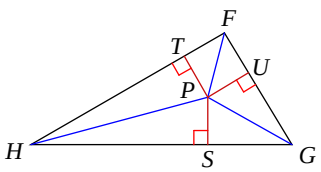
A) 1.73 B) 2.24
C) 3 D) 3.61

2) $PG = 1$ and $CP = 7$.
Find CG.



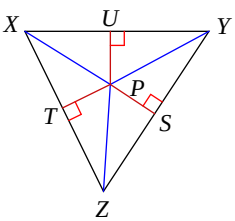
A) 6.93 B) 6.86
C) 9.85 D) 4.47

3) Find FT if $PT = 6$ and $FP = 10$.



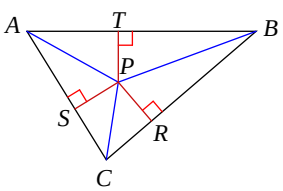
A) 8 B) 12.81
C) 11.66 D) 5.29

4) Find PU if $XT = 5$ and $XP = 6$.



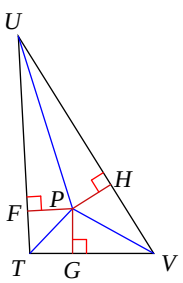
A) 7.81 B) 3.32
C) 6.86 D) 3.74

5) Find AS if $PR = 2.65$ and $AP = 4$.



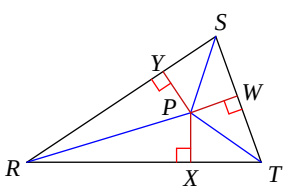
A) 3 B) 1.41
C) 1.73 D) 5

6) $PG = 3$ and $TG = 4$.
Find TP.



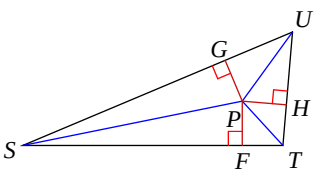
A) 3 B) 5.83
C) 6.4 D) 5

7) $PX = 2$ and $RX = 6$.
Find RP.



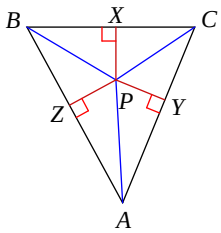
A) 6.32 B) 3.74
C) 5.66 D) 6.63

8) Find UG if $PF = 2$ and $UP = 5$.



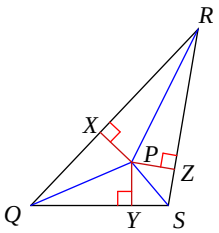
A) 4.12 B) 6.78
C) 5.39 D) 4.58

9) Find PY if $AY = 12$ and $AP = 13$.



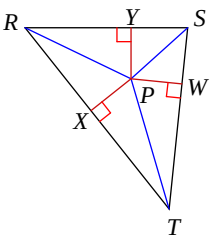
A) 13.93 B) 5
C) 7 D) 2.24

10) Find QY if $PX = 3$ and $QP = 5$.



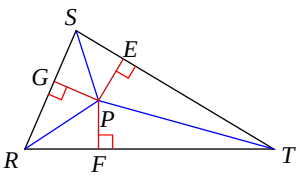
A) 4 B) 2.65
C) 6.4 D) 4.36

11) $PX = 5$ and $RP = 13$. Find RX.



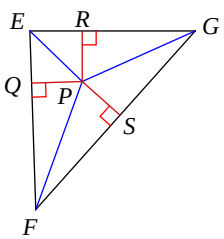
A) 12 B) 17.69
C) 10.91 D) 13.93

12) $PE = 1$ and $RP = 3$. Find RF.



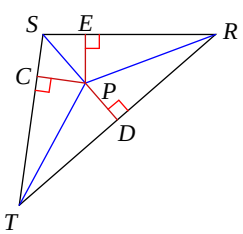
A) 4.12 B) 2.83
C) 3.16 D) 2.65

13) $PQ = 3$ and $GR = 7$. Find GP.



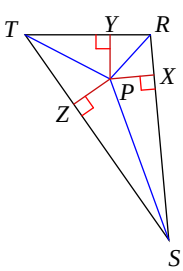
A) 10.35 B) 7.62
C) 8.19 D) 6

14) Find TP if $PD = 1$ and $TD = 3$.



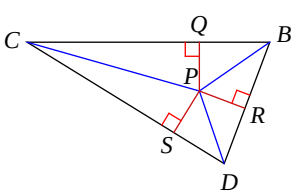
A) 3.16 B) 2.83
C) 4.47 D) 3.32

15) $PY = 2.24$ and $RY = 2$. Find RP.



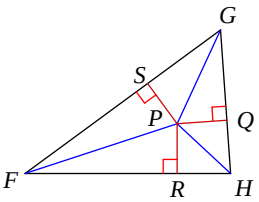
A) 2.83 B) 3.74
C) 1.01 D) 3

16) Find DP if $PQ = 2$ and $DR = 2$.



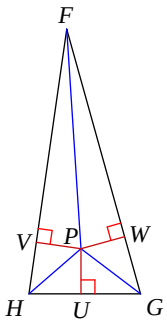
A) 3.47 B) 0
C) 2.83 D) 3.32

17) Find FP if $PQ = 1$ and $FR = 4$.



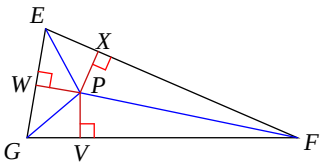
A) 3.87 B) 5.74
C) 4.12 D) 2

18) Find FP if $PV = 1$ and $FV = 5$.



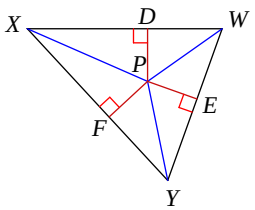
A) 5.1 B) 5.2
C) 4.9 D) 7.14

19) Find EW if $PW = 2$ and $EP = 4$.



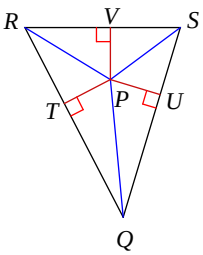
A) 4.47 B) 2.82
C) 3.46 D) 5.29

20) $YE = 2$ and $YP = 3$. Find PE.



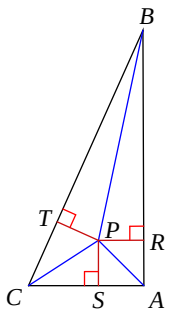
A) 4.36 B) 2.24
C) 1.01 D) 3.61

21) Find QU if $PU = 2$ and $QP = 6$.



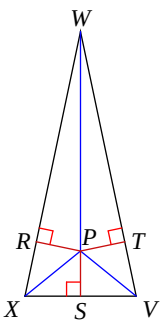
A) 5.66 B) 8.25
C) 5.29 D) 6.32

22) Find PR if $CS = 4$ and $CP = 5$.



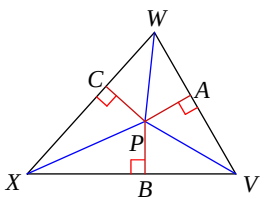
A) 5.83 B) 3
C) 6.4 D) 2.65

23) Find XP if $PR = 6$ and $XS = 8$.



A) 12.81 B) 5.29
C) 11.66 D) 10

24) Find XB if $PB = 1$ and $XP = 4$.



A) 5.57 B) 4.12
C) 3.74 D) 3.87

Answers to Assignment (ID: 7)

1) B
2) A
3) A
4) B
5) A
6) D
7) A
8) D
9) B
10) A
11) A
12) B
13) B
14) A
15) D
16) C
17) C
18) A
19) C
20) B
21) A
22) B
23) D
24) D

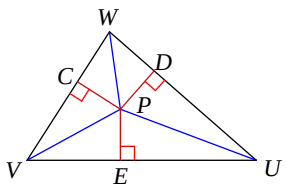
Geometry Name_____

Assignment

Date_____ Period____

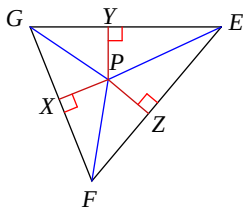
Each figure shows a triangle with its three angle bisectors intersecting at point P.

1) Find *UD* if *PE* = 1 and *UP* = 4.



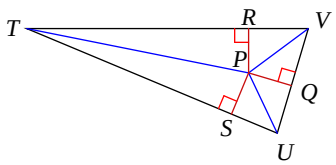
A) 3.87 B) 3
C) 5.57 D) 9

2) *PY* = 3.87 and *EY* = 7. Find *EP*.



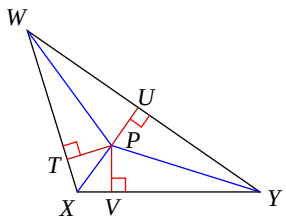
A) 2 B) 5.83
C) 8.89 D) 8

3) *PR* = 1 and *VR* = 2. Find *VP*.



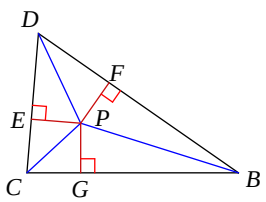
A) 2.24 B) 3.61
C) 2.45 D) 3

4) *YU* = 3 and *YP* = 4. Find *PU*.



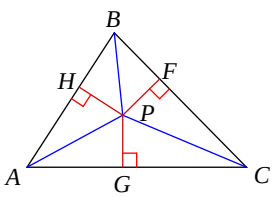
A) 1.41 B) 5
C) 2.65 D) 4.8

5) *PF* = 5 and *BP* = 13. Find *BF*.



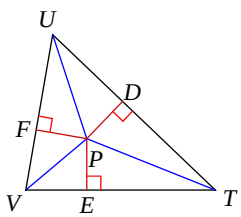
A) 3.32 B) 10.91
C) 13.93 D) 12

6) *AG* = 4 and *AP* = 5. Find *PG*.



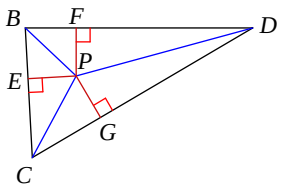
A) 6.4 B) 3
C) 2.65 D) 5.83

7) Find *VP* if *PE* = 1 and *VE* = 1.



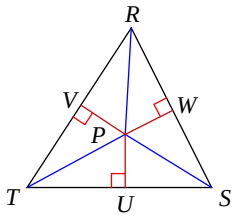
A) 0 B) 4
C) 1.73 D) 1.41

8) *PF* = 3 and *DF* = 4. Find *DP*.



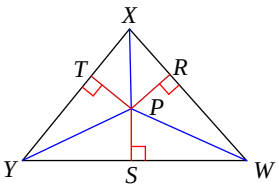
A) 5 B) 2.65
C) 2.24 D) 6.4

9) $RV = 8$ and $RP = 10$.
Find PW.



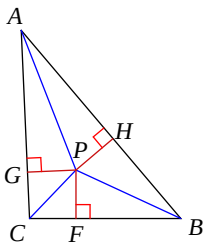
A) 6 B) 2.45
C) 5.29 D) 11.66

10) Find YS if $PS = 2$ and $YP = 6$.



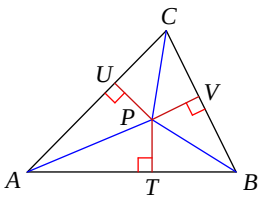
A) 5.66 B) 8.25
C) 11 D) 6.32

11) $PG = 2$ and $AP = 8$.
Find AG.



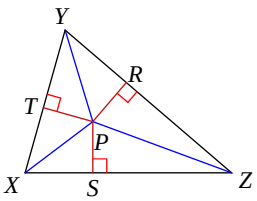
A) 4.12 B) 7.75
C) 8.25 D) 2.65

12) $CU = 2$ and $CP = 3$.
Find PV.



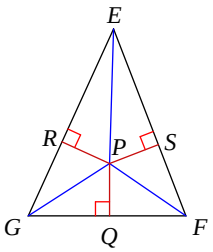
A) 3.74 B) 2.24
C) 4.12 D) 3.61

13) $XS = 2$ and $XP = 2.24$.
Find PT.



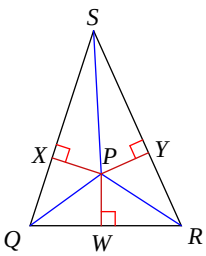
A) 4.24 B) 3
C) 1.73 D) 1.01

14) Find PR if $ER = 6$ and $EP = 7$.



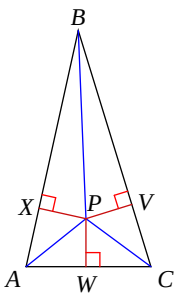
A) 9.22 B) 2.45
C) 3.61 D) 7.88

15) $PX = 1$ and $SP = 5$.
Find SX.



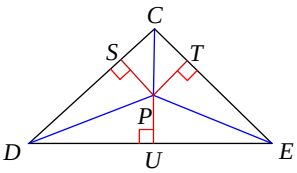
A) 7 B) 4.9
C) 2.83 D) 4.8

16) $PX = 4$ and $AW = 5$.
Find AP.



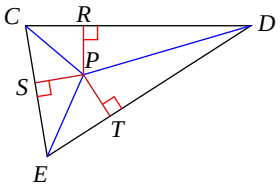
A) 3 B) 4.36
C) 6.4 D) 7.55

17) Find EP if $PU = 1$ and $ET = 3$.



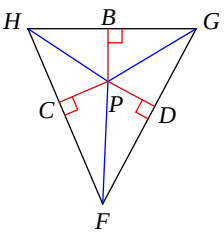
A) 3.31 B) 4.36
C) 3.16 D) 2.83

18) $PT = 3$ and $CP = 5$. Find CS.



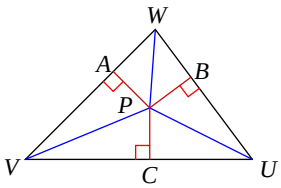
A) 3.61 B) 2.83
C) 1.73 D) 4

19) $PC = 1$ and $HP = 3$. Find HC.



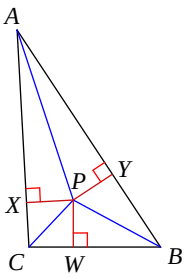
A) 3.16 B) 2.83
C) 2.65 D) 4.12

20) Find UB if $PA = 2$ and $UP = 4$.



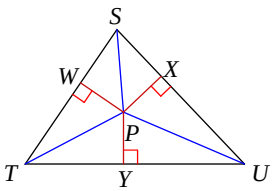
A) 4.47 B) 5.29
C) 3.46 D) 2.82

21) Find PX if $AX = 7$ and $AP = 8$.



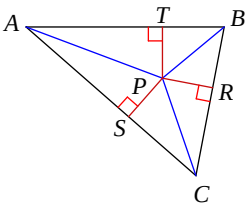
A) 8.89 B) 5.83
C) 10.63 D) 3.87

22) Find UP if $PW = 2.65$ and $UX = 3$.



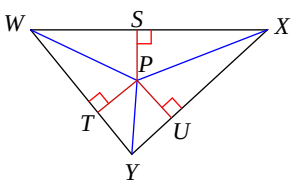
A) 2.83 B) 4
C) 1.41 D) 5

23) $PS = 2$ and $AS = 4$. Find AP.



A) 4.47 B) 4.9
C) 4.58 D) 6

24) Find WP if $PT = 5$ and $WT = 12$.



A) 4.58 B) 17.69
C) 13.93 D) 13

Answers to Assignment (ID: 8)

1) A
2) D
3) A
4) C
5) D
6) B
7) D
8) A
9) A
10) A
11) B
12) B
13) D
14) C
15) B
16) C
17) C
18) D
19) B
20) C
21) D
22) B
23) A
24) D

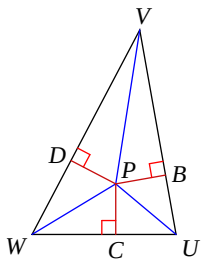
Geometry Name_____

Assignment

Date_____ Period____

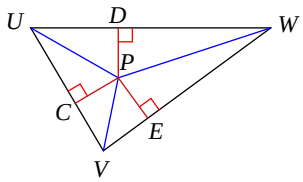
Each figure shows a triangle with its three angle bisectors intersecting at point P.

1) $WC = 4$ and $WP = 5$.
Find PC.



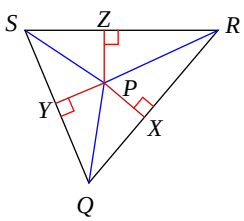
A) 6.4 B) 2.65
C) 3 D) 5.83

2) Find WP if $PD = 1$ and $WD = 4$.



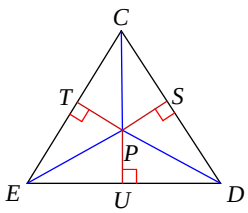
A) 4.12 B) 3.87
C) 5.74 D) 4.24

3) Find SY if $PX = 2.24$ and $SP = 3$.



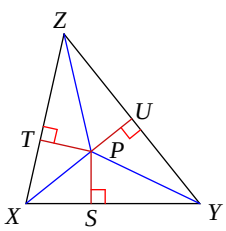
A) 2 B) 3.74
C) 3.61 D) 1.01

4) $CT = 3$ and $CP = 3.61$.
Find PT.



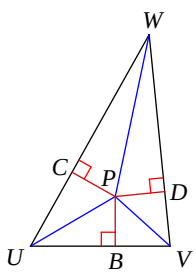
A) 2.01 B) 3.61
C) 2.23 D) 4.24

5) Find PT if $ZT = 12$ and $ZP = 13$.



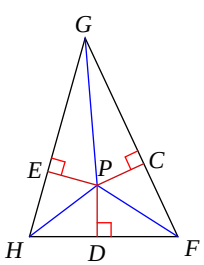
A) 4.36 B) 5
C) 8 D) 10.91

6) Find WP if $PB = 2$ and $WC = 7$.



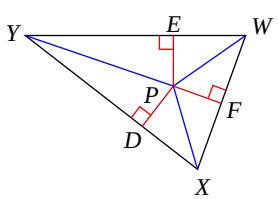
A) 6.71 B) 10.1
C) 4.47 D) 7.28

7) Find PE if $HD = 2$ and $HP = 3$.



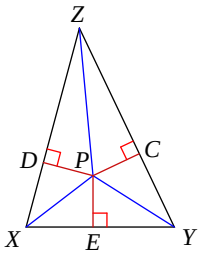
A) 2.24 B) 1.01

8) Find PE if $WE = 6$ and $WP = 7$.



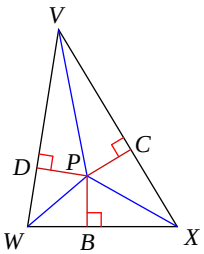
A) 4.79 B) 4.47
C) 3.61 D) 7.88

9) $PD = 2$ and $ZP = 7$.
Find ZD.



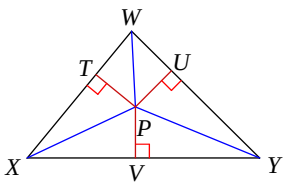
A) 7.28 B) 6.71
C) 3.46 D) 9.7

10) Find XP if $PC = 1$ and $XC = 2$.



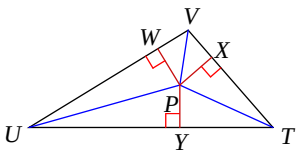
A) 4.36 B) 2.65
C) 2.24 D) 4.47

11) Find YU if $PU = 5$ and $YP = 13$.



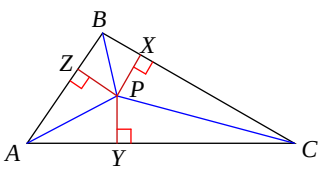
A) 13.93 B) 10.91
C) 17.69 D) 12

12) $PX = 3$ and $TX = 6$.
Find TP.



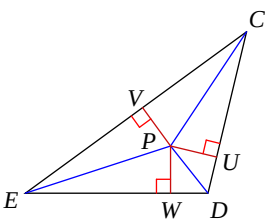
A) 6.71 B) 7.35
C) 5.2 D) 9

13) Find PY if $AY = 5$ and $AP = 6$.



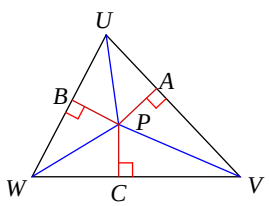
A) 3.74 B) 7.81
C) 6.86 D) 3.32

14) Find CV if $PU = 1$ and $CP = 5$.



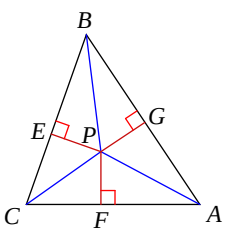
A) 4.8 B) 5.1
C) 7 D) 4.9

15) $UB = 8$ and $UP = 10$.
Find PB.



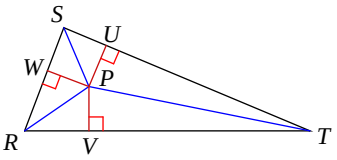
A) 5.29 B) 6
C) 11.66 D) 12.81

16) $PF = 2$ and $CP = 4$.
Find CF.



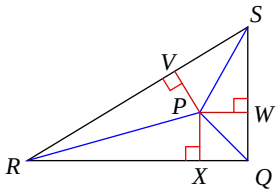
A) 3.16 B) 5.29
C) 4.47 D) 3.46

17) $RV = 6$ and $RP = 7.21$.
Find PV.



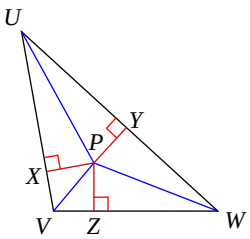
A) 9.38 B) 4
C) 2.45 D) 8.25

18) $PX = 1$ and $QW = 1$.
Find QP.



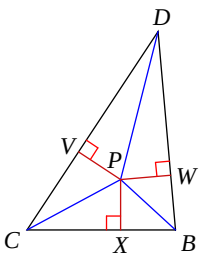
A) 1.73 B) 1.41
C) 0 D) 5

19) $PZ = 1$ and $WY = 3$.
Find WP.



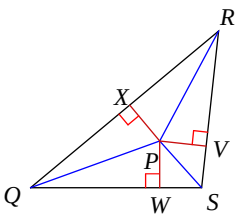
A) 3.16 B) 1.73
C) 3.31 D) 2.83

20) Find BW if $PW = 1$ and $BP = 2$.



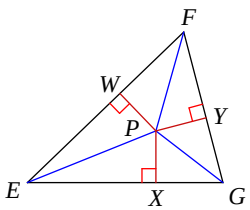
A) 2.64 B) 1.41
C) 1.73 D) 2.24

21) Find QW if $PW = 2$ and $QP = 5.39$.



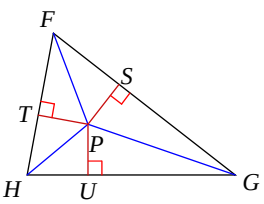
A) 7.36 B) 4.59
C) 5.01 D) 5.75

22) Find PW if $EX = 3$ and $EP = 4$.



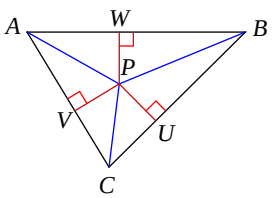
A) 2.65 B) 4.8
C) 1.41 D) 5

23) $PU = 6$ and $FP = 10$.
Find FT.



A) 11.66 B) 5.29
C) 8 D) 12.81

24) Find AV if $PU = 3$ and $AP = 7$.



A) 6.32 B) 5.56
C) 9.43 D) 7.62

Answers to Assignment (ID: 9)

1) C
2) A
3) A
4) A
5) B
6) D
7) A
8) C
9) B
10) C
11) D
12) A
13) D
14) D
15) B
16) D
17) B
18) B
19) A
20) C
21) C
22) A
23) C
24) A

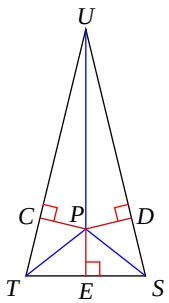
Geometry Name_____

Assignment

Date_____ Period____

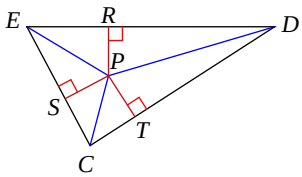
Each figure shows a triangle with its three angle bisectors intersecting at point P.

1) $PC = 2$ and $SP = 3$.
Find SD.



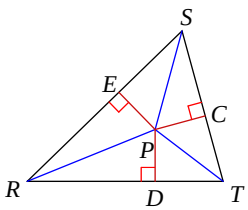
A) 2.24 B) 1.01
C) 3.61 D) 3.74

2) Find EP if $PS = 1$ and $ES = 2$.



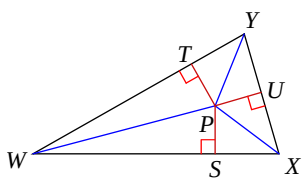
A) 2.45 B) 1.73
C) 2 D) 2.24

3) $PD = 1$ and $RD = 3$.
Find RP.



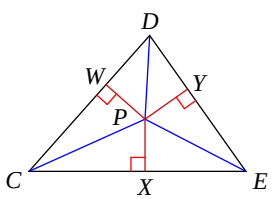
A) 4.36 B) 2.83
C) 3.31 D) 3.16

4) Find YT if $PT = 6$ and $YP = 10$.



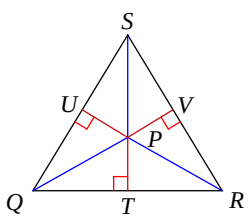
A) 3.87 B) 5.29
C) 8 D) 11.66

5) $CX = 7$ and $CP = 8$.
Find PX.



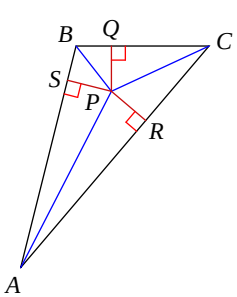
A) 4.24 B) 3.87
C) 8.89 D) 10.63

6) $PU = 6$ and $SU = 8$.
Find SP.



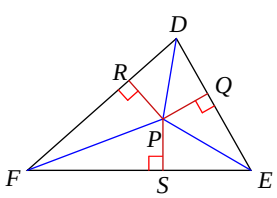
A) 10 B) 12.81
C) 11.66 D) 5.29

7) Find PR if $AR = 5$ and $AP = 5.1$.



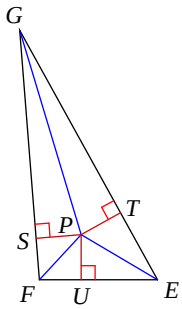
A) 2 B) 7.14

8) Find PR if $DR = 2$ and $DP = 3$.



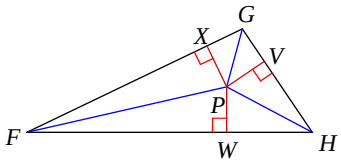
A) 3.74 B) 1.01
C) 2.24 D) 3.61

9) Find PT if $ET = 3$ and $EP = 4$.



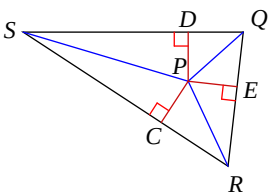
A) 14 B) 4.58
C) 3 D) 2.65

10) $PW = 2$ and $FP = 9$. Find FW.



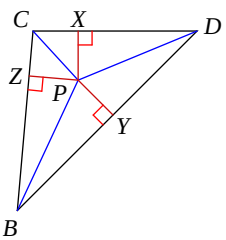
A) 1.73 B) 9.22
C) 8.77 D) 11

11) Find QP if $PD = 1$ and $QD = 1$.



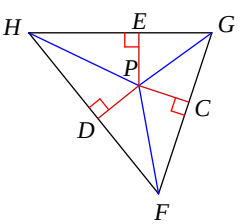
A) 0 B) 8
C) 1.73 D) 1.41

12) Find PY if $BY = 12$ and $BP = 13$.



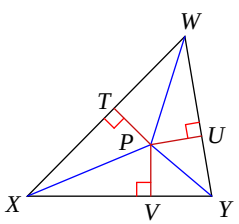
A) 17.69 B) 10.91
C) 5 D) 4.12

13) Find HP if $PC = 5$ and $HD = 12$.



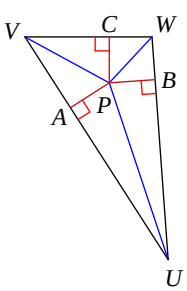
A) 13 B) 17.69
C) 4.58 D) 10.91

14) Find YU if $PU = 3$ and $YP = 5$.



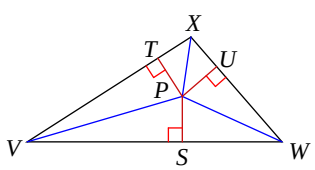
A) 4 B) 5.83
C) 2.65 D) 6.4

15) $UB = 5$ and $UP = 6$. Find PB.



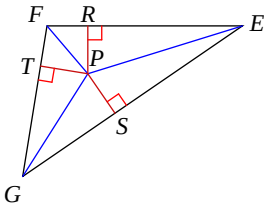
A) 6.86 B) 1.73
C) 3.87 D) 3.32

16) Find XP if $PT = 4$ and $XT = 4$.



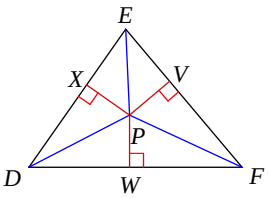
A) 5.66 B) 11
C) 0 D) 6.93

17) $GS = 4$ and $GP = 5$.
Find PS.



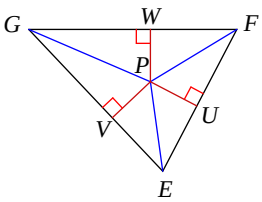
A) 3 B) 2.65
C) 5.83 D) 7

18) Find DP if $PW = 2.24$ and $DW = 2$.



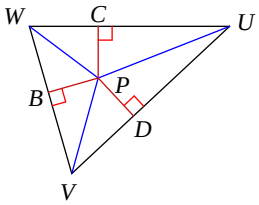
A) 3.61 B) 13
C) 1.01 D) 3

19) $PV = 3.61$ and $GP = 7$.
Find GV.



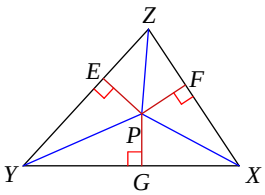
A) 7.88 B) 4.79
C) 9.22 D) 6

20) Find UC if $PC = 1$ and $UP = 4$.



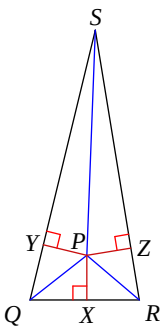
A) 4.24 B) 3.87
C) 4.12 D) 5.57

21) $PE = 1$ and $XP = 3$.
Find XF.



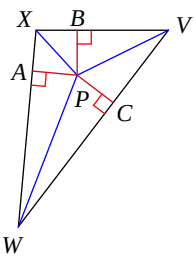
A) 4.12 B) 2.83
C) 3.16 D) 14

22) Find SP if $PY = 1$ and $SY = 7$.



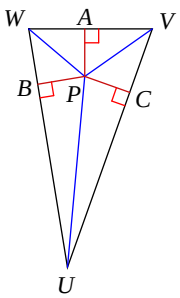
A) 7.07 B) 6.93
C) 9.95 D) 7.14

23) Find PB if $VB = 6$ and $VP = 7$.



A) 9.22 B) 4.36
C) 3.61 D) 4.79

24) $PB = 1$ and $WP = 2$.
Find WB.



A) 3.87 B) 4.36
C) 1.73 D) 2.64

Answers to Assignment (ID: 10)

1) A
2) D
3) D
4) C
5) B
6) A
7) D
8) C
9) D
10) C
11) D
12) C
13) A
14) A
15) D
16) A
17) A
18) D
19) D
20) B
21) B
22) A
23) C
24) C