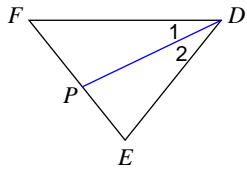


Assignment

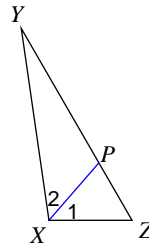
Each figure shows a triangle with one of its angle bisectors.

1) Find $m\angle FDE$ if $m\angle 2 = 25^\circ$.



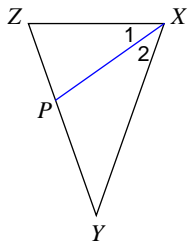
- A) 12.5°
- B) 25°
- C) 75°
- D) 50°

2) Find $m\angle 2$ if $m\angle ZXY = 98^\circ$.



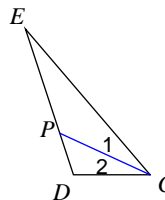
- A) 196°
- B) 24.5°
- C) 98°
- D) 49°

3) $m\angle ZXY = 70^\circ$. Find $m\angle 2$.



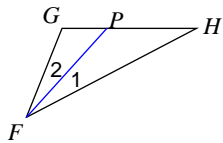
- A) 35°
- B) 17.5°
- C) 140°
- D) 70°

4) $m\angle ECD = 48^\circ$. Find $m\angle 1$.



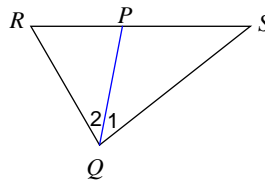
- A) 12°
- B) 24°
- C) 96°
- D) 48°

5) Find $m\angle 2$ if $m\angle HFG = 40^\circ$.



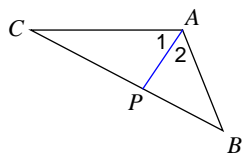
- A) 80°
- B) 10°
- C) 20°
- D) 40°

6) Find $m\angle 2$ if $m\angle SQR = 82^\circ$.



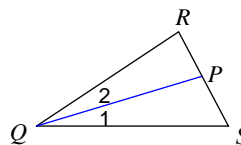
- A) 164°
- B) 82°
- C) 41°
- D) 20.5°

7) $m\angle 2 = 56^\circ$. Find $m\angle CAB$.



- A) 28°
- B) 112°
- C) 168°
- D) 56°

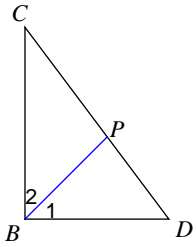
8) Find $m\angle SQR$ if $m\angle 1 = 17^\circ$.



- A) 34°
- B) 17°
- C) 8.5°
- D) 51°

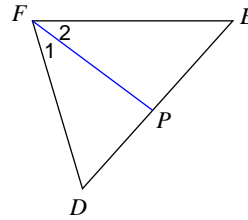


9) $m\angle 1 = 45^\circ$. Find $m\angle DBC$.



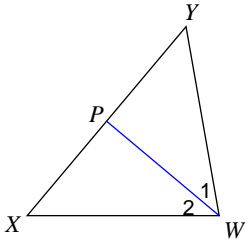
- A) 22.5° B) 135°
 C) 45° D) 90°

10) Find $m\angle DFE$ if $m\angle 2 = 36^\circ$.



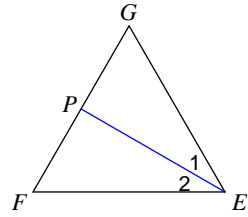
- A) 18° B) 108°
 C) 36° D) 72°

11) $m\angle YWX = 80^\circ$. Find $m\angle 2$.



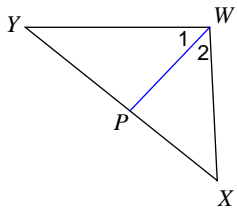
- A) 20° B) 80°
 C) 160° D) 40°

12) $m\angle 1 = 30^\circ$. Find $m\angle GEF$.



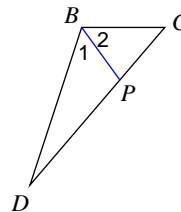
- A) 90° B) 30°
 C) 60° D) 15°

13) $m\angle 2 = 46^\circ$. Find $m\angle YWX$.



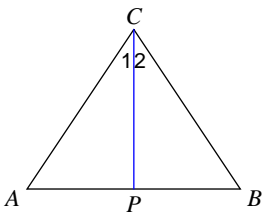
- A) 138° B) 46°
 C) 23° D) 92°

14) Find $m\angle DBC$ if $m\angle 2 = 54^\circ$.



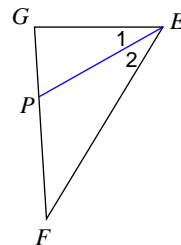
- A) 54° B) 27°
 C) 108° D) 162°

15) $m\angle 2 = 33^\circ$. Find $m\angle ACB$.



- A) 99° B) 66°
 C) 33° D) 16.5°

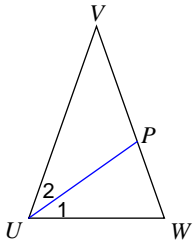
16) Find $m\angle 1$ if $m\angle 2 = 29^\circ$.



- A) 58° B) 14.5°
 C) 180° D) 29°

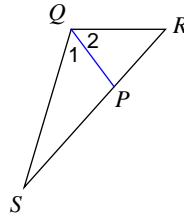


17) $m\angle 1 = 35^\circ$. Find $m\angle WUV$.



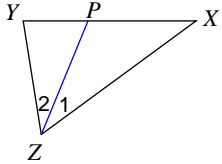
- A) 35° B) 17.5°
 C) 105° D) 70°

18) Find $m\angle SQR$ if $m\angle 2 = 53^\circ$.



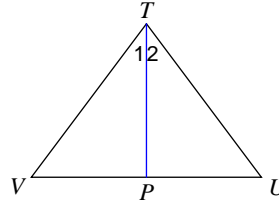
- A) 53° B) 26.5°
 C) 106° D) 159°

19) $m\angle XZY = 62^\circ$. Find $m\angle 1$.



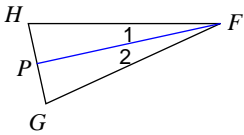
- A) 124° B) 62°
 C) 15.5° D) 31°

20) $m\angle 1 = 37^\circ$. Find $m\angle 2$.



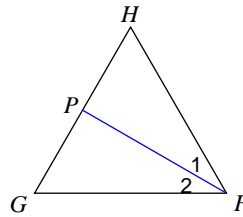
- A) 74° B) 37°
 C) 18.5° D) 180°

21) Find $m\angle 2$ if $m\angle HFG = 24^\circ$.



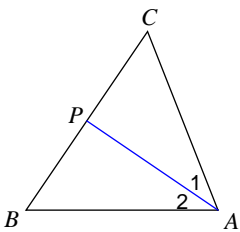
- A) 48° B) 6°
 C) 24° D) 12°

22) Find $m\angle 1$ if $m\angle HFG = 60^\circ$.



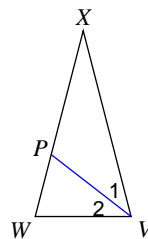
- A) 30° B) 15°
 C) 60° D) 120°

23) $m\angle 2 = 34^\circ$. Find $m\angle CAB$.



- A) 34° B) 17°
 C) 68° D) 102°

24) Find $m\angle XVW$ if $m\angle 1 = 38^\circ$.



- A) 114° B) 76°
 C) 19° D) 38°



Answers to Assignment (ID: 1)

1) D
5) C
9) D
13) D
17) D
21) D

2) D
6) C
10) D
14) C
18) C
22) A

3) A
7) B
11) D
15) B
19) D
23) C

4) B
8) A
12) C
16) D
20) B
24) B

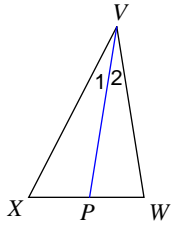


Assignment

Date _____ Period _____

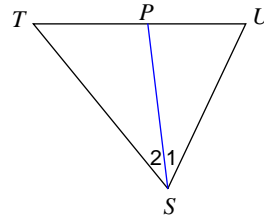
Each figure shows a triangle with one of its angle bisectors.

1) $m\angle 2 = 18^\circ$. Find $m\angle XVW$.



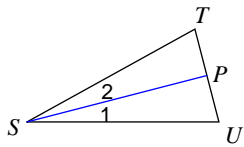
- A) 36°
- B) 18°
- C) 9°
- D) 54°

2) Find $m\angle UST$ if $m\angle 1 = 32^\circ$.



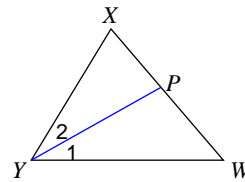
- A) 64°
- B) 96°
- C) 16°
- D) 32°

3) Find $m\angle UST$ if $m\angle 1 = 14^\circ$.



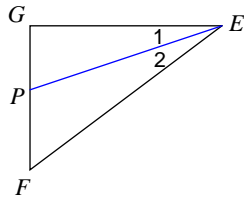
- A) 7°
- B) 42°
- C) 28°
- D) 14°

4) Find $m\angle 1$ if $m\angle WYX = 58^\circ$.



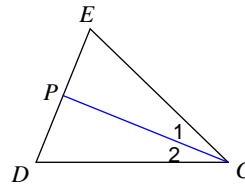
- A) 29°
- B) 116°
- C) 14.5°
- D) 58°

5) $m\angle GEF = 36^\circ$. Find $m\angle 2$.



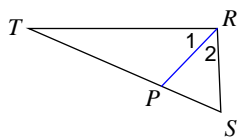
- A) 9°
- B) 36°
- C) 18°
- D) 72°

6) $m\angle ECD = 44^\circ$. Find $m\angle 1$.



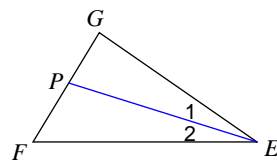
- A) 11°
- B) 88°
- C) 22°
- D) 44°

7) $m\angle TRS = 92^\circ$. Find $m\angle 2$.



- A) 23°
- B) 184°
- C) 92°
- D) 46°

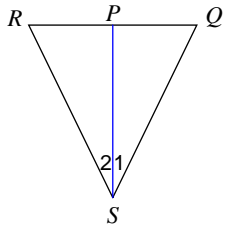
8) $m\angle 2 = 17^\circ$. Find $m\angle GEF$.



- A) 51°
- B) 17°
- C) 8.5°
- D) 34°

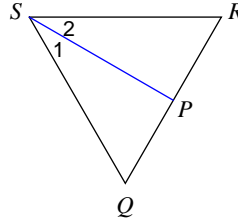


9) $m\angle 2 = 26^\circ$. Find $m\angle QSR$.



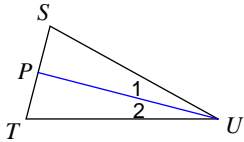
- A) 78° B) 13°
 C) 26° D) 52°

10) Find $m\angle 1$ if $m\angle QSR = 60^\circ$.



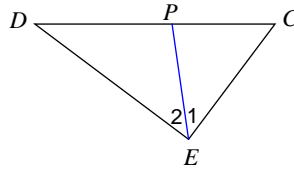
- A) 30° B) 60°
 C) 15° D) 120°

11) $m\angle SUT = 28^\circ$. Find $m\angle 2$.



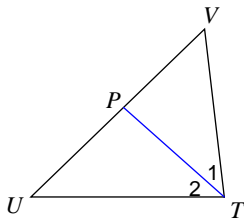
- A) 28° B) 7°
 C) 56° D) 14°

12) Find $m\angle 1$ if $m\angle CED = 90^\circ$.



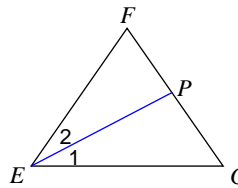
- A) 180° B) 90°
 C) 22.5° D) 45°

13) Find $m\angle 2$ if $m\angle 1 = 41^\circ$.



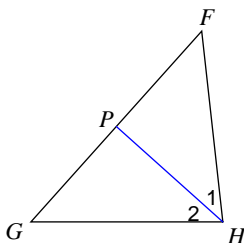
- A) 41° B) 20.5°
 C) 82° D) 180°

14) $m\angle 1 = 27^\circ$. Find $m\angle GEF$.



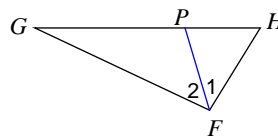
- A) 81° B) 27°
 C) 13.5° D) 54°

15) $m\angle 1 = 42^\circ$. Find $m\angle FHG$.



- A) 42° B) 21°
 C) 84° D) 126°

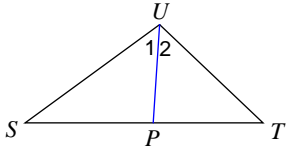
16) $m\angle 2 = 48^\circ$. Find $m\angle 1$.



- A) 96° B) 24°
 C) 180° D) 48°

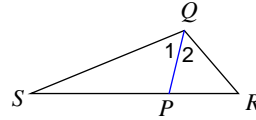


17) $m\angle 1 = 50^\circ$. Find $m\angle SUT$.



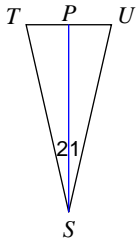
- A) 100° B) 25°
 C) 50° D) 150°

18) Find $m\angle 1$ if $m\angle SQR = 108^\circ$.



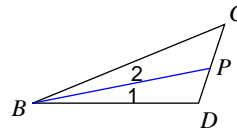
- A) 54° B) 108°
 C) 27° D) 216°

19) Find $m\angle UST$ if $m\angle 2 = 13^\circ$.



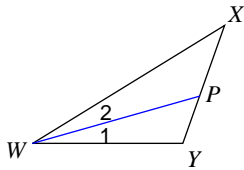
- A) 6.5° B) 39°
 C) 13° D) 26°

20) Find $m\angle 1$ if $m\angle DBC = 22^\circ$.



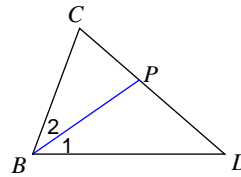
- A) 22° B) 44°
 C) 5.5° D) 11°

21) $m\angle 1 = 16^\circ$. Find $m\angle YWX$.



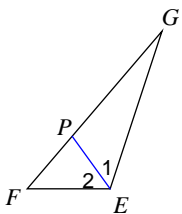
- A) 48° B) 8°
 C) 16° D) 32°

22) Find $m\angle 1$ if $m\angle DBC = 70^\circ$.



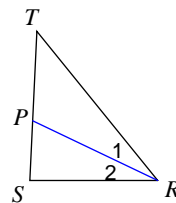
- A) 140° B) 35°
 C) 17.5° D) 70°

23) $m\angle 1 = 54^\circ$. Find $m\angle GEF$.



- A) 162° B) 27°
 C) 108° D) 54°

24) Find $m\angle 2$ if $m\angle TRS = 50^\circ$.



- A) 100° B) 12.5°
 C) 25° D) 50°



Answers to Assignment (ID: 2)

1) A
5) C
9) D
13) A
17) A
21) D

2) A
6) C
10) A
14) D
18) A
22) B

3) C
7) D
11) D
15) C
19) D
23) C

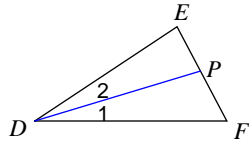
4) A
8) D
12) D
16) D
20) D
24) C



Assignment

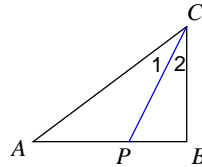
Each figure shows a triangle with one of its angle bisectors.

1) Find $m\angle FDE$ if $m\angle 1 = 17^\circ$.



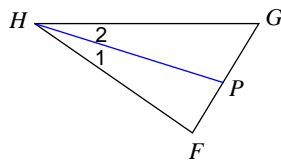
- A) 34°
- B) 51°
- C) 17°
- D) 8.5°

2) Find $m\angle 2$ if $m\angle ACB = 52^\circ$.



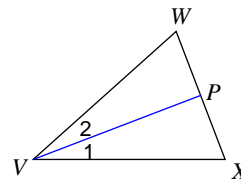
- A) 26°
- B) 104°
- C) 52°
- D) 13°

3) $m\angle FHG = 34^\circ$. Find $m\angle 1$.



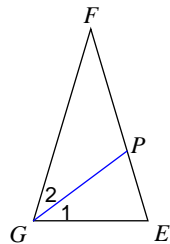
- A) 68°
- B) 34°
- C) 8.5°
- D) 17°

4) $m\angle 1 = 21^\circ$. Find $m\angle 2$.



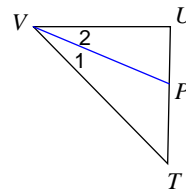
- A) 180°
- B) 10.5°
- C) 21°
- D) 42°

5) Find $m\angle 1$ if $m\angle EGF = 72^\circ$.



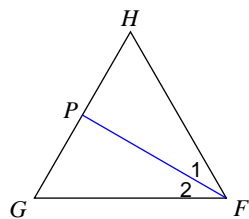
- A) 36°
- B) 144°
- C) 18°
- D) 72°

6) $m\angle 1 = 23^\circ$. Find $m\angle TVU$.



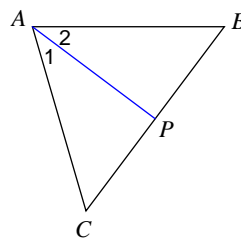
- A) 11.5°
- B) 46°
- C) 69°
- D) 23°

7) Find $m\angle 1$ if $m\angle HFG = 60^\circ$.



- A) 60°
- B) 15°
- C) 30°
- D) 120°

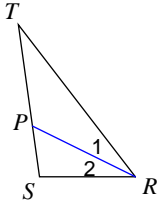
8) Find $m\angle CAB$ if $m\angle 2 = 37^\circ$.



- A) 111°
- B) 74°
- C) 18.5°
- D) 37°

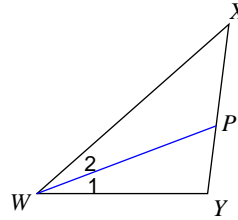


9) Find $m\angle TRS$ if $m\angle 2 = 26^\circ$.



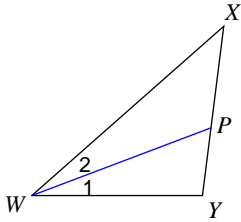
- A) 52° B) 78°
 C) 13° D) 26°

10) Find $m\angle YWX$ if $m\angle 1 = 20^\circ$.



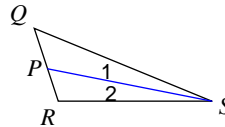
- A) 20° B) 60°
 C) 40° D) 10°

11) $m\angle 1 = 20^\circ$. Find $m\angle 2$.



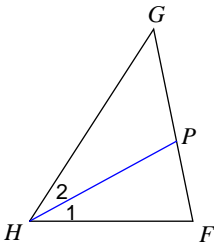
- A) 20° B) 40°
 C) 180° D) 10°

12) $m\angle 2 = 11^\circ$. Find $m\angle QSR$.



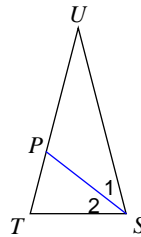
- A) 33° B) 5.5°
 C) 22° D) 11°

13) Find $m\angle 2$ if $m\angle FHG = 56^\circ$.



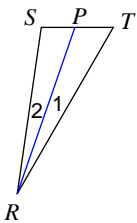
- A) 112° B) 14°
 C) 56° D) 28°

14) $m\angle UST = 76^\circ$. Find $m\angle 1$.



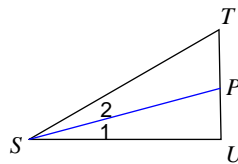
- A) 38° B) 19°
 C) 152° D) 76°

15) $m\angle TRS = 22^\circ$. Find $m\angle 1$.



- A) 5.5° B) 22°
 C) 11° D) 44°

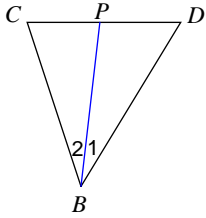
16) Find $m\angle 2$ if $m\angle UST = 30^\circ$.



- A) 15° B) 60°
 C) 30° D) 7.5°

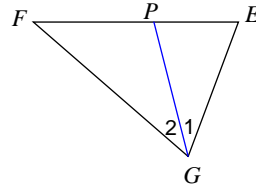


17) $m\angle DBC = 48^\circ$. Find $m\angle 2$.



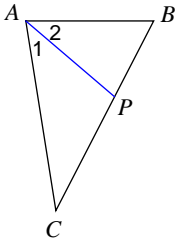
- A) 12° B) 48°
 C) 96° D) 24°

18) Find $m\angle EGF$ if $m\angle 2 = 35^\circ$.



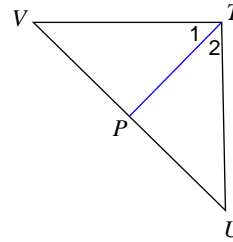
- A) 17.5° B) 70°
 C) 105° D) 35°

19) Find $m\angle 1$ if $m\angle CAB = 80^\circ$.



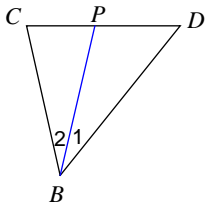
- A) 20° B) 160°
 C) 80° D) 40°

20) $m\angle 2 = 45^\circ$. Find $m\angle VTU$.



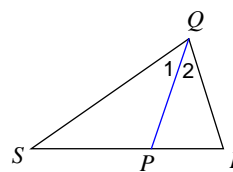
- A) 90° B) 22.5°
 C) 45° D) 135°

21) $m\angle 1 = 25^\circ$. Find $m\angle DBC$.



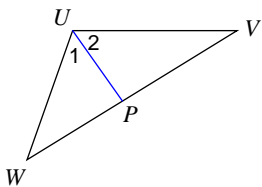
- A) 75° B) 12.5°
 C) 25° D) 50°

22) Find $m\angle SQR$ if $m\angle 1 = 36^\circ$.



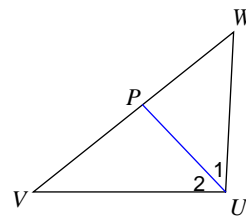
- A) 108° B) 72°
 C) 36° D) 18°

23) $m\angle 2 = 54^\circ$. Find $m\angle WUV$.



- A) 108° B) 162°
 C) 54° D) 27°

24) Find $m\angle WUV$ if $m\angle 1 = 46^\circ$.



- A) 23° B) 92°
 C) 138° D) 46°



Answers to Assignment (ID: 3)

- 1) A
- 5) A
- 9) A
- 13) D
- 17) D
- 21) D

- 2) A
- 6) B
- 10) C
- 14) A
- 18) B
- 22) B

- 3) D
- 7) C
- 11) A
- 15) C
- 19) D
- 23) A

- 4) C
- 8) B
- 12) C
- 16) A
- 20) A
- 24) B

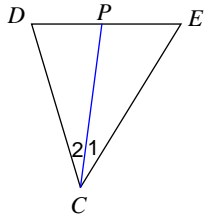


Assignment

Date _____ Period _____

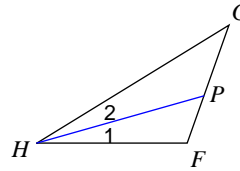
Each figure shows a triangle with one of its angle bisectors.

1) $m\angle ECD = 48^\circ$. Find $m\angle 1$.



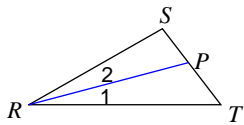
- A) 12°
- B) 24°
- C) 96°
- D) 48°

2) Find $m\angle 2$ if $m\angle FHG = 32^\circ$.



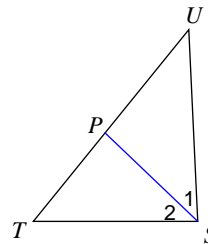
- A) 16°
- B) 32°
- C) 64°
- D) 8°

3) Find $m\angle 2$ if $m\angle TRS = 30^\circ$.



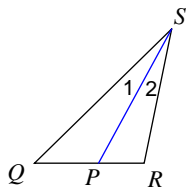
- A) 60°
- B) 30°
- C) 7.5°
- D) 15°

4) $m\angle 2 = 43^\circ$. Find $m\angle 1$.



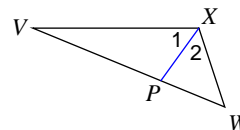
- A) 21.5°
- B) 43°
- C) 180°
- D) 86°

5) $m\angle QSR = 34^\circ$. Find $m\angle 2$.



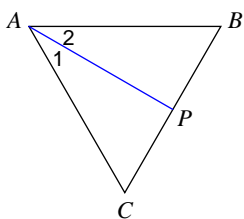
- A) 8.5°
- B) 34°
- C) 68°
- D) 17°

6) $m\angle VXW = 108^\circ$. Find $m\angle 2$.



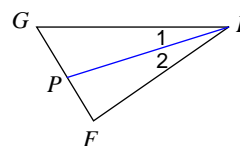
- A) 108°
- B) 54°
- C) 27°
- D) 216°

7) $m\angle 2 = 30^\circ$. Find $m\angle CAB$.



- A) 60°
- B) 90°
- C) 15°
- D) 30°

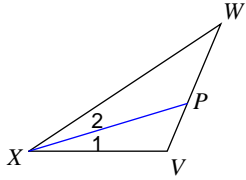
8) Find $m\angle 2$ if $m\angle 1 = 17^\circ$.



- A) 34°
- B) 17°
- C) 8.5°
- D) 180°

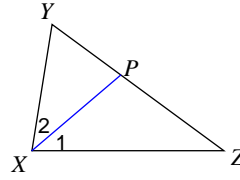


9) Find $m\angle VXW$ if $m\angle 1 = 17^\circ$.



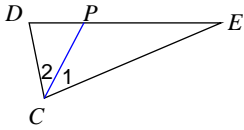
- A) 8.5° B) 51°
 C) 17° D) 34°

10) Find $m\angle 2$ if $m\angle ZXY = 80^\circ$.



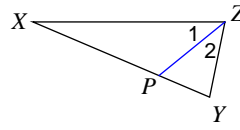
- A) 40° B) 160°
 C) 20° D) 80°

11) Find $m\angle 2$ if $m\angle ECD = 78^\circ$.



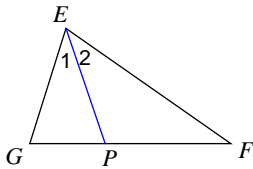
- A) 78° B) 156°
 C) 19.5° D) 39°

12) $m\angle 2 = 39^\circ$. Find $m\angle XZY$.



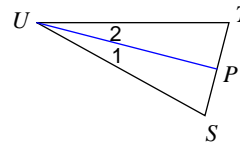
- A) 78° B) 39°
 C) 19.5° D) 117°

13) Find $m\angle 2$ if $m\angle GEF = 72^\circ$.



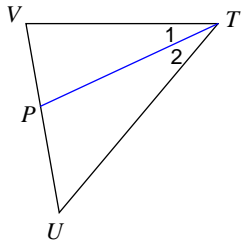
- A) 36° B) 144°
 C) 18° D) 72°

14) $m\angle SUT = 28^\circ$. Find $m\angle 1$.



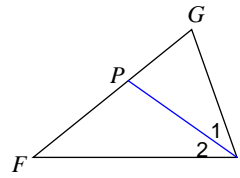
- A) 56° B) 7°
 C) 14° D) 28°

15) Find $m\angle 2$ if $m\angle 1 = 25^\circ$.



- A) 180° B) 12.5°
 C) 50° D) 25°

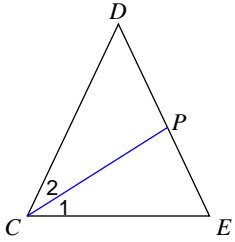
16) Find $m\angle 1$ if $m\angle GEF = 70^\circ$.



- A) 17.5° B) 70°
 C) 35° D) 140°

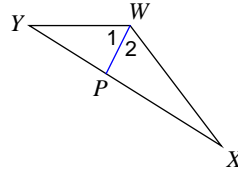


17) Find $m\angle 2$ if $m\angle 1 = 32^\circ$.



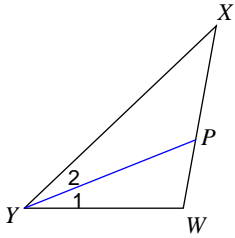
- A) 32° B) 64°
 C) 180° D) 16°

18) Find $m\angle YWX$ if $m\angle 1 = 63^\circ$.



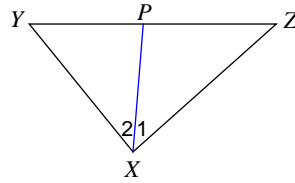
- A) 126° B) 63°
 C) 105° D) 31.5°

19) $m\angle WYX = 44^\circ$. Find $m\angle 1$.



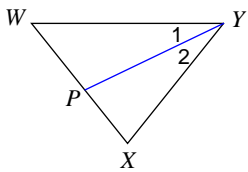
- A) 22° B) 11°
 C) 44° D) 88°

20) $m\angle 2 = 43^\circ$. Find $m\angle ZXY$.



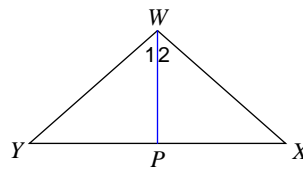
- A) 129° B) 21.5°
 C) 43° D) 86°

21) $m\angle 1 = 25^\circ$. Find $m\angle WYX$.



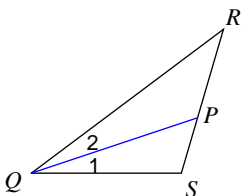
- A) 75° B) 25°
 C) 12.5° D) 50°

22) Find $m\angle YWX$ if $m\angle 2 = 48^\circ$.



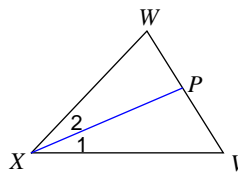
- A) 144° B) 24°
 C) 96° D) 48°

23) $m\angle 1 = 18^\circ$. Find $m\angle SQR$.



- A) 9° B) 36°
 C) 18° D) 54°

24) Find $m\angle 1$ if $m\angle 2 = 23^\circ$.



- A) 46° B) 180°
 C) 11.5° D) 23°



Answers to Assignment (ID: 4)

1) B
5) D
9) D
13) A
17) A
21) D

2) A
6) B
10) A
14) C
18) A
22) C

3) D
7) A
11) D
15) D
19) A
23) B

4) B
8) B
12) A
16) C
20) D
24) D

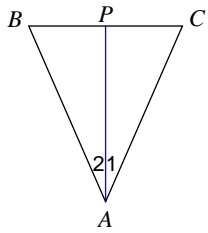


Assignment

Date _____ Period _____

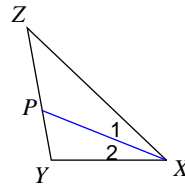
Each figure shows a triangle with one of its angle bisectors.

1) $m\angle CAB = 46^\circ$. Find $m\angle 1$.



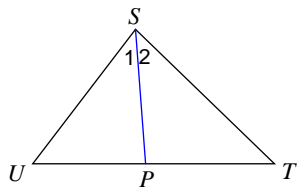
- A) 23°
- B) 46°
- C) 92°
- D) 11.5°

2) Find $m\angle ZXY$ if $m\angle 2 = 22^\circ$.



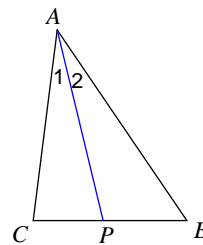
- A) 66°
- B) 22°
- C) 44°
- D) 11°

3) Find $m\angle 2$ if $m\angle UST = 82^\circ$.



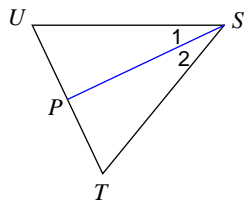
- A) 41°
- B) 164°
- C) 20.5°
- D) 82°

4) $m\angle 2 = 20^\circ$. Find $m\angle 1$.



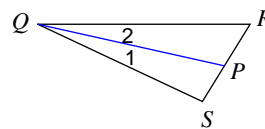
- A) 10°
- B) 20°
- C) 40°
- D) 180°

5) Find $m\angle UST$ if $m\angle 1 = 25^\circ$.



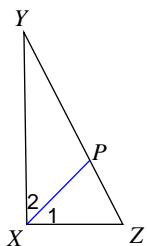
- A) 50°
- B) 12.5°
- C) 25°
- D) 75°

6) Find $m\angle SQR$ if $m\angle 2 = 12^\circ$.



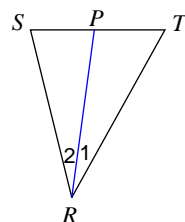
- A) 36°
- B) 6°
- C) 12°
- D) 24°

7) $m\angle 1 = 45^\circ$. Find $m\angle ZXY$.



- A) 22.5°
- B) 135°
- C) 90°
- D) 45°

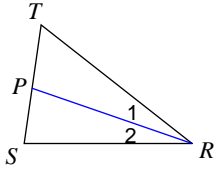
8) Find $m\angle TRS$ if $m\angle 2 = 21^\circ$.



- A) 21°
- B) 10.5°
- C) 42°
- D) 63°

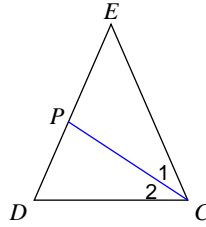


9) $m\angle 1 = 19^\circ$. Find $m\angle TRS$.



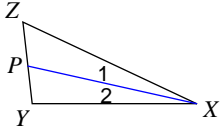
- A) 57° B) 9.5°
 C) 19° D) 38°

10) $m\angle 1 = 33^\circ$. Find $m\angle ECD$.



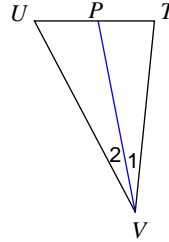
- A) 16.5° B) 33°
 C) 66° D) 99°

11) Find $m\angle 2$ if $m\angle 1 = 12^\circ$.



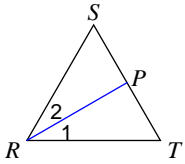
- A) 180° B) 24°
 C) 6° D) 12°

12) Find $m\angle 1$ if $m\angle 2 = 17^\circ$.



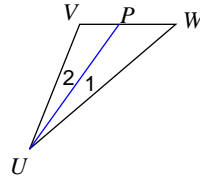
- A) 17° B) 8.5°
 C) 34° D) 180°

13) Find $m\angle 2$ if $m\angle 1 = 30^\circ$.



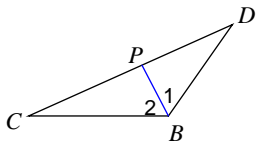
- A) 30° B) 60°
 C) 15° D) 180°

14) $m\angle WUV = 28^\circ$. Find $m\angle 1$.



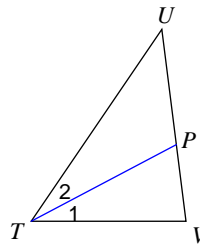
- A) 56° B) 7°
 C) 28° D) 14°

15) $m\angle 2 = 62^\circ$. Find $m\angle DBC$.



- A) 31° B) 82°
 C) 62° D) 124°

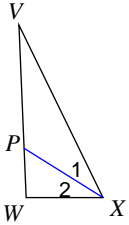
16) Find $m\angle 1$ if $m\angle VTU = 56^\circ$.



- A) 14° B) 28°
 C) 112° D) 56°

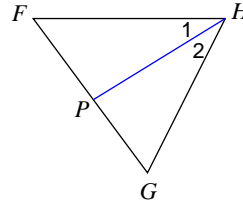


17) $m\angle 2 = 32^\circ$. Find $m\angle VXW$.



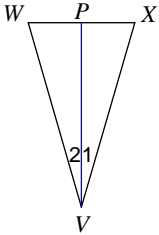
- A) 64° B) 96°
 C) 16° D) 32°

18) $m\angle FHG = 62^\circ$. Find $m\angle 1$.



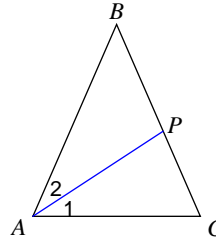
- A) 31° B) 15.5°
 C) 124° D) 62°

19) $m\angle 1 = 16^\circ$. Find $m\angle 2$.



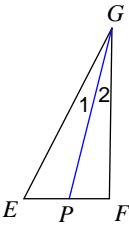
- A) 8° B) 32°
 C) 180° D) 16°

20) Find $m\angle 1$ if $m\angle 2 = 33^\circ$.



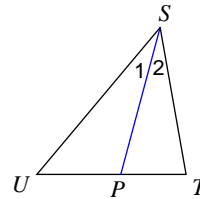
- A) 16.5° B) 33°
 C) 66° D) 180°

21) Find $m\angle EGF$ if $m\angle 2 = 13^\circ$.



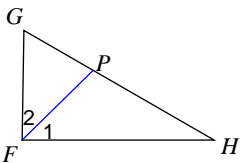
- A) 26° B) 6.5°
 C) 13° D) 39°

22) $m\angle UST = 50^\circ$. Find $m\angle 2$.



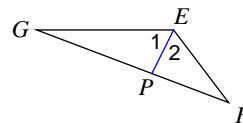
- A) 25° B) 50°
 C) 12.5° D) 100°

23) Find $m\angle 2$ if $m\angle 1 = 44^\circ$.



- A) 88° B) 44°
 C) 22° D) 180°

24) $m\angle GEF = 126^\circ$. Find $m\angle 1$.



- A) 252° B) 31.5°
 C) 63° D) 126°



Answers to Assignment (ID: 5)

1) A
5) A
9) D
13) A
17) A
21) A

2) C
6) D
10) C
14) D
18) A
22) A

3) A
7) C
11) D
15) D
19) D
23) B

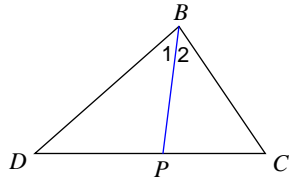
4) B
8) C
12) A
16) B
20) B
24) C



Assignment

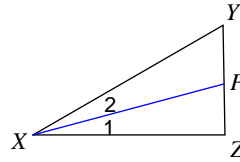
Each figure shows a triangle with one of its angle bisectors.

1) Find $m\angle 1$ if $m\angle DBC = 82^\circ$.



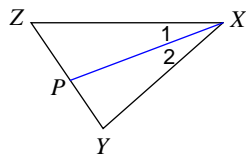
- A) 82°
- B) 20.5°
- C) 164°
- D) 41°

2) Find $m\angle 2$ if $m\angle ZXY = 30^\circ$.



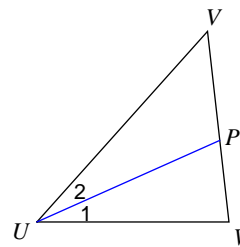
- A) 15°
- B) 7.5°
- C) 30°
- D) 60°

3) Find $m\angle 2$ if $m\angle 1 = 20^\circ$.



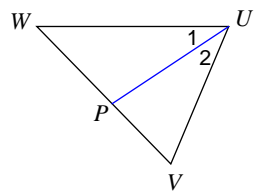
- A) 180°
- B) 10°
- C) 40°
- D) 20°

4) Find $m\angle 1$ if $m\angle WUV = 48^\circ$.



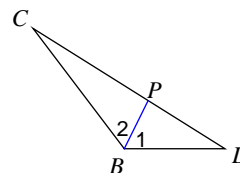
- A) 48°
- B) 24°
- C) 12°
- D) 96°

5) $m\angle WUV = 66^\circ$. Find $m\angle 1$.



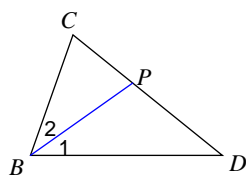
- A) 16.5°
- B) 66°
- C) 132°
- D) 33°

6) Find $m\angle DBC$ if $m\angle 1 = 63^\circ$.



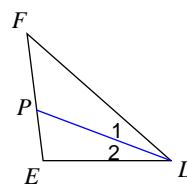
- A) 63°
- B) 126°
- C) 106°
- D) 31.5°

7) $m\angle DBC = 70^\circ$. Find $m\angle 1$.



- A) 35°
- B) 140°
- C) 70°
- D) 17.5°

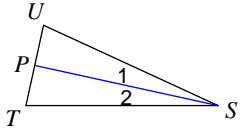
8) $m\angle FDE = 40^\circ$. Find $m\angle 1$.



- A) 20°
- B) 10°
- C) 40°
- D) 80°

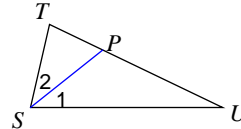


9) Find $m\angle UST$ if $m\angle 2 = 12^\circ$.



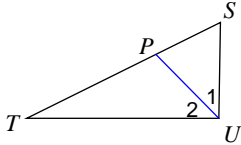
- A) 36° B) 24°
 C) 6° D) 12°

10) $m\angle UST = 76^\circ$. Find $m\angle 2$.



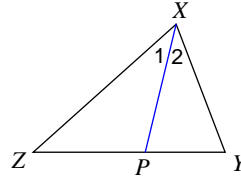
- A) 38° B) 152°
 C) 19° D) 76°

11) Find $m\angle 1$ if $m\angle SUT = 90^\circ$.



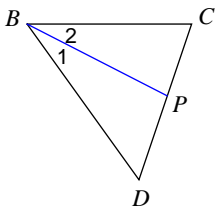
- A) 45° B) 180°
 C) 22.5° D) 90°

12) Find $m\angle 1$ if $m\angle ZXY = 68^\circ$.



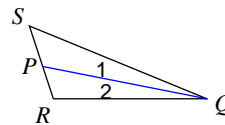
- A) 17° B) 136°
 C) 34° D) 68°

13) Find $m\angle 2$ if $m\angle DBC = 54^\circ$.



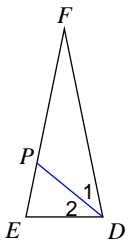
- A) 27° B) 108°
 C) 13.5° D) 54°

14) Find $m\angle 1$ if $m\angle SQR = 22^\circ$.



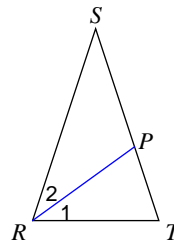
- A) 5.5° B) 22°
 C) 44° D) 11°

15) $m\angle 2 = 39^\circ$. Find $m\angle FDE$.



- A) 19.5° B) 117°
 C) 78° D) 39°

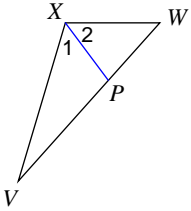
16) $m\angle 1 = 36^\circ$. Find $m\angle 2$.



- A) 180° B) 72°
 C) 36° D) 18°

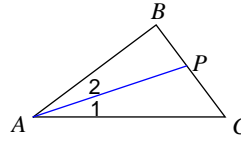


17) Find $m\angle 1$ if $m\angle 2 = 53^\circ$.



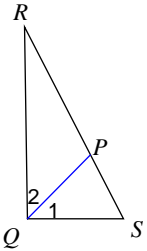
- A) 26.5° B) 53°
 C) 180° D) 106°

18) $m\angle CAB = 36^\circ$. Find $m\angle 1$.



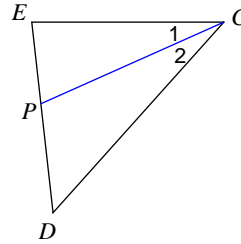
- A) 72° B) 36°
 C) 9° D) 18°

19) $m\angle 2 = 45^\circ$. Find $m\angle SQR$.



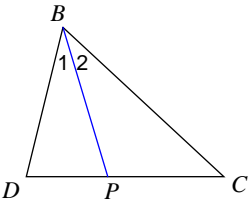
- A) 45° B) 22.5°
 C) 90° D) 135°

20) $m\angle 1 = 24^\circ$. Find $m\angle ECD$.



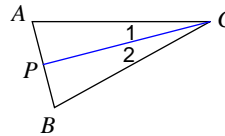
- A) 12° B) 72°
 C) 24° D) 48°

21) $m\angle DBC = 60^\circ$. Find $m\angle 2$.



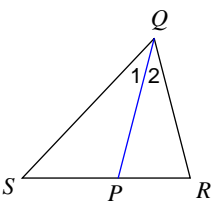
- A) 120° B) 60°
 C) 30° D) 15°

22) $m\angle 2 = 14^\circ$. Find $m\angle ACB$.



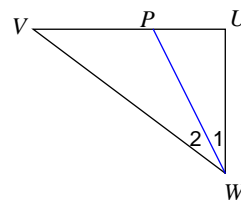
- A) 42° B) 28°
 C) 14° D) 7°

23) $m\angle SQR = 58^\circ$. Find $m\angle 2$.



- A) 14.5° B) 116°
 C) 58° D) 29°

24) Find $m\angle UWV$ if $m\angle 1 = 26^\circ$.



- A) 78° B) 13°
 C) 26° D) 52°



Answers to Assignment (ID: 6)

1) D
5) D
9) B
13) A
17) B
21) C

2) A
6) B
10) A
14) D
18) D
22) B

3) D
7) A
11) A
15) C
19) C
23) D

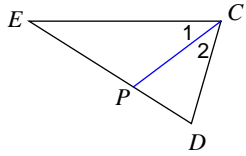
4) B
8) A
12) C
16) C
20) D
24) D



Assignment

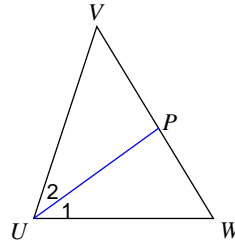
Each figure shows a triangle with one of its angle bisectors.

1) $m\angle I = 37^\circ$. Find $m\angle ECD$.



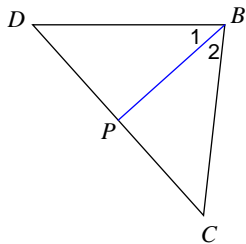
- A) 111°
- B) 74°
- C) 37°
- D) 18.5°

2) $m\angle I = 36^\circ$. Find $m\angle WUV$.



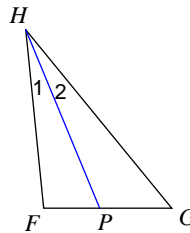
- A) 36°
- B) 18°
- C) 108°
- D) 72°

3) Find $m\angle 2$ if $m\angle DBC = 84^\circ$.



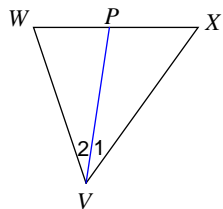
- A) 21°
- B) 168°
- C) 42°
- D) 84°

4) Find $m\angle FHG$ if $m\angle I = 17^\circ$.



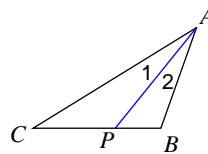
- A) 51°
- B) 34°
- C) 8.5°
- D) 17°

5) Find $m\angle XVW$ if $m\angle 2 = 27^\circ$.



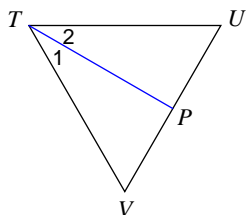
- A) 81°
- B) 27°
- C) 54°
- D) 13.5°

6) $m\angle 2 = 19^\circ$. Find $m\angle I$.



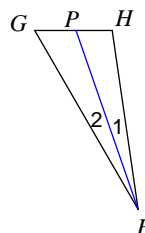
- A) 38°
- B) 180°
- C) 19°
- D) 9.5°

7) Find $m\angle VTU$ if $m\angle I = 30^\circ$.



- A) 15°
- B) 90°
- C) 30°
- D) 60°

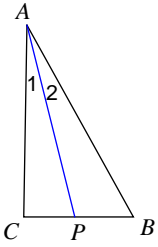
8) Find $m\angle HFG$ if $m\angle 2 = 11^\circ$.



- A) 33°
- B) 11°
- C) 22°
- D) 5.5°

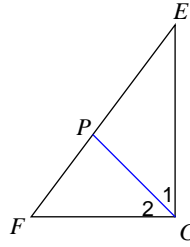


9) $m\angle 2 = 15^\circ$. Find $m\angle CAB$.



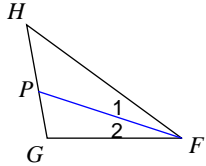
- A) 30° B) 45°
 C) 15° D) 7.5°

10) Find $m\angle 2$ if $m\angle EGF = 90^\circ$.



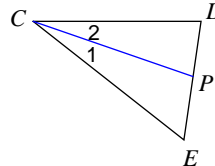
- A) 45° B) 90°
 C) 22.5° D) 180°

11) $m\angle 2 = 18^\circ$. Find $m\angle HFG$.



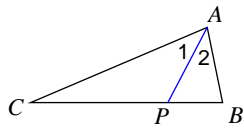
- A) 36° B) 54°
 C) 18° D) 9°

12) Find $m\angle ECD$ if $m\angle 1 = 19^\circ$.



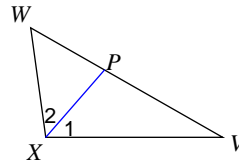
- A) 19° B) 57°
 C) 9.5° D) 38°

13) Find $m\angle 2$ if $m\angle CAB = 78^\circ$.



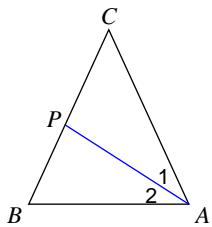
- A) 156° B) 78°
 C) 19.5° D) 39°

14) Find $m\angle 1$ if $m\angle 2 = 49^\circ$.



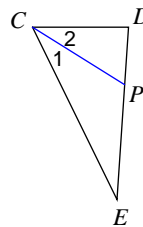
- A) 98° B) 49°
 C) 24.5° D) 180°

15) Find $m\angle 1$ if $m\angle CAB = 64^\circ$.



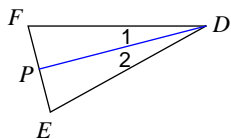
- A) 64° B) 32°
 C) 16° D) 128°

16) $m\angle 1 = 32^\circ$. Find $m\angle 2$.



- A) 32° B) 180°
 C) 16° D) 64°

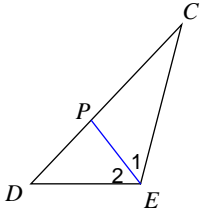
17) Find $m\angle 2$ if $m\angle FDE = 28^\circ$.



- A) 14° B) 56°
 C) 28° D) 7°

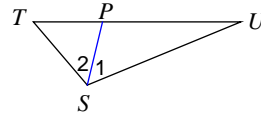


18) $m\angle 2 = 52^\circ$. Find $m\angle CED$.



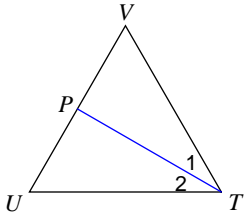
- A) 104° B) 52°
 C) 156° D) 26°

19) Find $m\angle I$ if $m\angle UST = 108^\circ$.



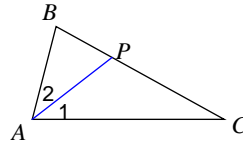
- A) 54° B) 27°
 C) 108° D) 216°

20) $m\angle VTU = 60^\circ$. Find $m\angle I$.



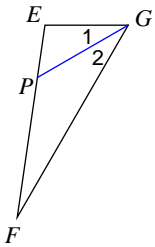
- A) 15° B) 60°
 C) 120° D) 30°

21) Find $m\angle CAB$ if $m\angle I = 38^\circ$.



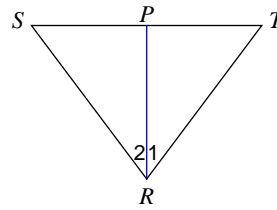
- A) 38° B) 76°
 C) 19° D) 114°

22) Find $m\angle 2$ if $m\angle 1 = 30^\circ$.



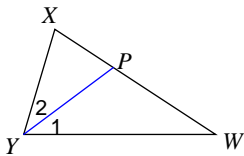
- A) 180° B) 30°
 C) 15° D) 60°

23) $m\angle TRS = 74^\circ$. Find $m\angle I$.



- A) 74° B) 18.5°
 C) 37° D) 148°

24) $m\angle 2 = 36^\circ$. Find $m\angle I$.



- A) 18° B) 72°
 C) 180° D) 36°



Answers to Assignment (ID: 7)

1) B
5) C
9) A
13) D
17) A
21) B

2) D
6) C
10) A
14) B
18) A
22) B

3) C
7) D
11) A
15) B
19) A
23) C

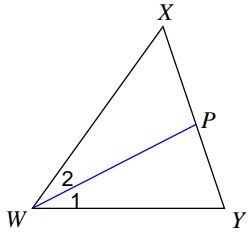
4) B
8) C
12) D
16) A
20) D
24) D



Assignment

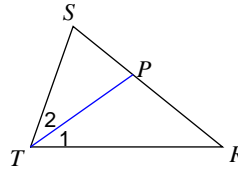
Each figure shows a triangle with one of its angle bisectors.

1) $m\angle 2 = 27^\circ$. Find $m\angle 1$.



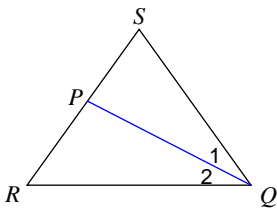
- A) 180°
- B) 27°
- C) 54°
- D) 13.5°

2) Find $m\angle 1$ if $m\angle RTS = 70^\circ$.



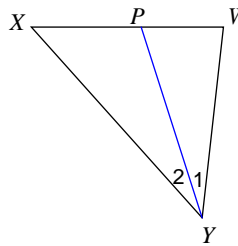
- A) 35°
- B) 140°
- C) 17.5°
- D) 70°

3) $m\angle SQR = 54^\circ$. Find $m\angle 1$.



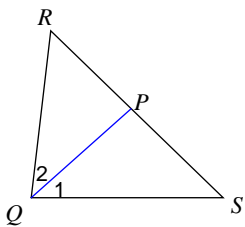
- A) 27°
- B) 54°
- C) 108°
- D) 13.5°

4) $m\angle 2 = 24^\circ$. Find $m\angle WYX$.



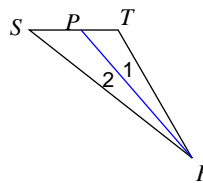
- A) 48°
- B) 12°
- C) 72°
- D) 24°

5) Find $m\angle 2$ if $m\angle SQR = 82^\circ$.



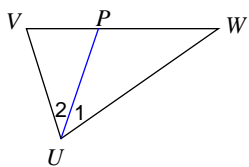
- A) 41°
- B) 164°
- C) 20.5°
- D) 82°

6) $m\angle 2 = 11^\circ$. Find $m\angle TRS$.



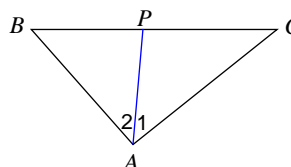
- A) 33°
- B) 11°
- C) 22°
- D) 5.5°

7) $m\angle 1 = 36^\circ$. Find $m\angle WUV$.



- A) 18°
- B) 108°
- C) 72°
- D) 36°

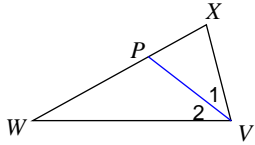
8) Find $m\angle 1$ if $m\angle CAB = 92^\circ$.



- A) 46°
- B) 184°
- C) 23°
- D) 92°

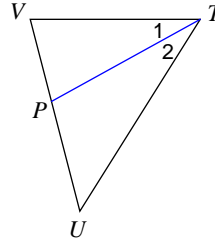


9) $m\angle 2 = 38^\circ$. Find $m\angle XVW$.



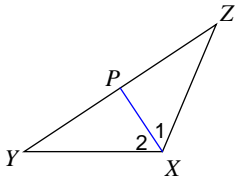
- A) 38° B) 19°
 C) 76° D) 114°

10) Find $m\angle VTU$ if $m\angle 1 = 29^\circ$.



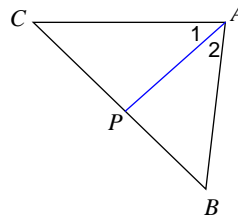
- A) 14.5° B) 29°
 C) 87° D) 58°

11) $m\angle ZXY = 112^\circ$. Find $m\angle 1$.



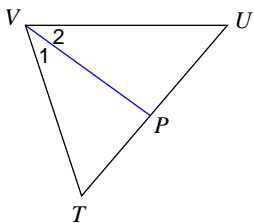
- A) 112° B) 224°
 C) 56° D) 28°

12) $m\angle 1 = 41^\circ$. Find $m\angle 2$.



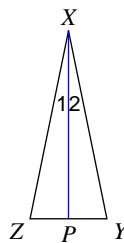
- A) 20.5° B) 180°
 C) 41° D) 82°

13) Find $m\angle 2$ if $m\angle TVU = 72^\circ$.



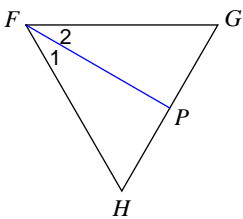
- A) 72° B) 18°
 C) 144° D) 36°

14) Find $m\angle 2$ if $m\angle 1 = 11^\circ$.



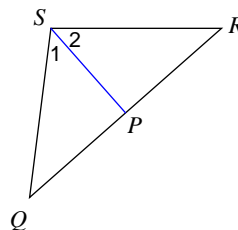
- A) 5.5° B) 180°
 C) 11° D) 22°

15) Find $m\angle 1$ if $m\angle HFG = 60^\circ$.



- A) 120° B) 30°
 C) 15° D) 60°

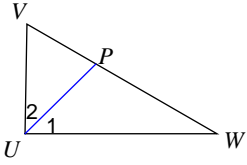
16) Find $m\angle 2$ if $m\angle 1 = 48^\circ$.



- A) 96° B) 180°
 C) 24° D) 48°

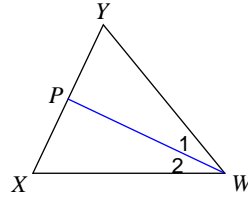


17) $m\angle 1 = 44^\circ$. Find $m\angle WUV$.



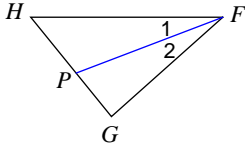
- A) 44° B) 132°
 C) 22° D) 88°

18) Find $m\angle 2$ if $m\angle YWX = 50^\circ$.



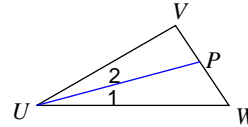
- A) 25° B) 100°
 C) 50° D) 12.5°

19) $m\angle 1 = 21^\circ$. Find $m\angle HFG$.



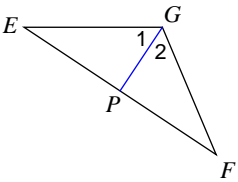
- A) 10.5° B) 21°
 C) 42° D) 63°

20) Find $m\angle WUV$ if $m\angle 1 = 15^\circ$.



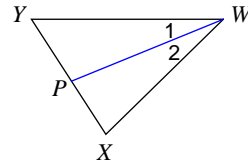
- A) 15° B) 30°
 C) 7.5° D) 45°

21) Find $m\angle EGF$ if $m\angle 1 = 56^\circ$.



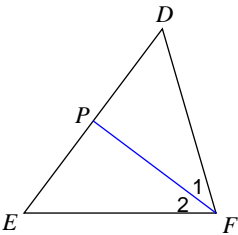
- A) 28° B) 56°
 C) 112° D) 168°

22) $m\angle 1 = 22^\circ$. Find $m\angle 2$.



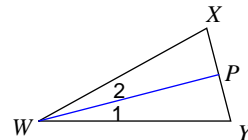
- A) 22° B) 180°
 C) 11° D) 44°

23) Find $m\angle 2$ if $m\angle DFE = 74^\circ$.



- A) 18.5° B) 74°
 C) 37° D) 148°

24) $m\angle YWX = 28^\circ$. Find $m\angle 1$.



- A) 7° B) 28°
 C) 56° D) 14°



Answers to Assignment (ID: 8)

- 1) B
- 5) A
- 9) C
- 13) D
- 17) D
- 21) C

- 2) A
- 6) C
- 10) D
- 14) C
- 18) A
- 22) A

- 3) A
- 7) C
- 11) C
- 15) B
- 19) C
- 23) C

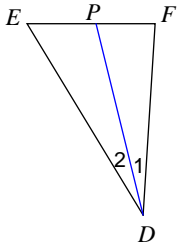
- 4) A
- 8) A
- 12) C
- 16) D
- 20) B
- 24) D



Assignment

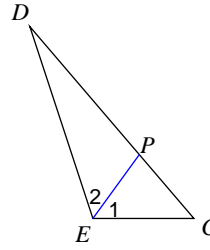
Each figure shows a triangle with one of its angle bisectors.

1) $m\angle 2 = 17^\circ$. Find $m\angle 1$.



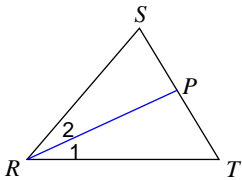
- A) 34°
- B) 8.5°
- C) 17°
- D) 180°

2) Find $m\angle CED$ if $m\angle 2 = 54^\circ$.



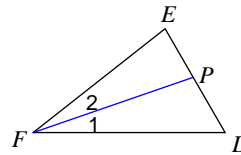
- A) 162°
- B) 108°
- C) 27°
- D) 54°

3) $m\angle TRS = 48^\circ$. Find $m\angle 2$.



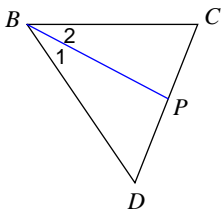
- A) 48°
- B) 96°
- C) 12°
- D) 24°

4) Find $m\angle 2$ if $m\angle 1 = 19^\circ$.



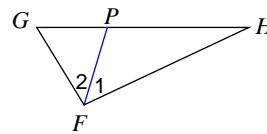
- A) 9.5°
- B) 38°
- C) 19°
- D) 180°

5) $m\angle 1 = 28^\circ$. Find $m\angle DBC$.



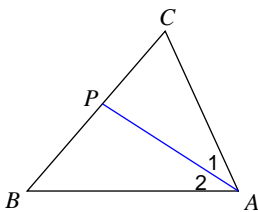
- A) 56°
- B) 84°
- C) 14°
- D) 28°

6) Find $m\angle 2$ if $m\angle HFG = 96^\circ$.



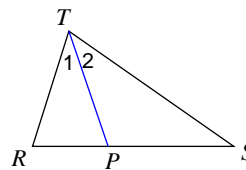
- A) 48°
- B) 96°
- C) 24°
- D) 192°

7) $m\angle 1 = 32^\circ$. Find $m\angle CAB$.



- A) 96°
- B) 16°
- C) 64°
- D) 32°

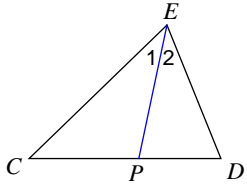
8) Find $m\angle RTS$ if $m\angle 2 = 36^\circ$.



- A) 36°
- B) 18°
- C) 108°
- D) 72°

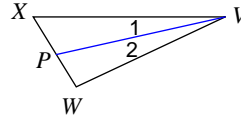


9) Find $m\angle CED$ if $m\angle 2 = 34^\circ$.



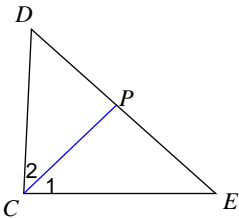
- A) 34° B) 68°
 C) 102° D) 17°

10) Find $m\angle I$ if $m\angle XVW = 24^\circ$.



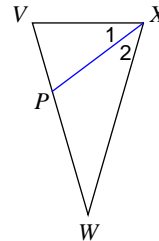
- A) 12° B) 6°
 C) 48° D) 24°

11) Find $m\angle ECD$ if $m\angle 2 = 43^\circ$.



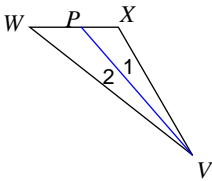
- A) 129° B) 86°
 C) 21.5° D) 43°

12) Find $m\angle 2$ if $m\angle VXW = 74^\circ$.



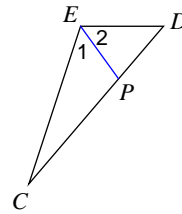
- A) 74° B) 148°
 C) 18.5° D) 37°

13) $m\angle I = 11^\circ$. Find $m\angle XVW$.



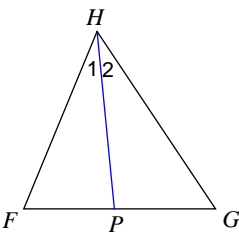
- A) 22° B) 5.5°
 C) 33° D) 11°

14) $m\angle I = 54^\circ$. Find $m\angle 2$.



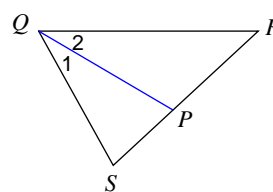
- A) 54° B) 180°
 C) 108° D) 27°

15) Find $m\angle 2$ if $m\angle 1 = 28^\circ$.



- A) 28° B) 180°
 C) 56° D) 14°

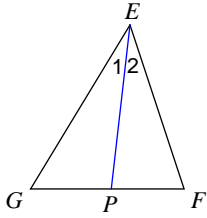
16) $m\angle 2 = 30^\circ$. Find $m\angle SQR$.



- A) 15° B) 60°
 C) 90° D) 30°

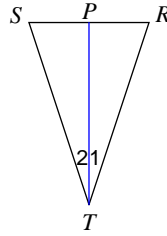


17) $m\angle 1 = 24^\circ$. Find $m\angle 2$.



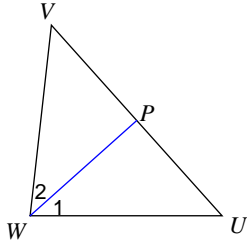
- A) 48° B) 24°
 C) 180° D) 12°

18) $m\angle 2 = 18^\circ$. Find $m\angle RTS$.



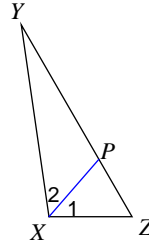
- A) 9° B) 36°
 C) 54° D) 18°

19) Find $m\angle 1$ if $m\angle UWV = 84^\circ$.



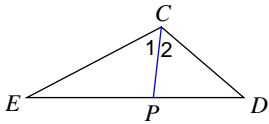
- A) 42° B) 168°
 C) 21° D) 84°

20) $m\angle ZXY = 98^\circ$. Find $m\angle 2$.



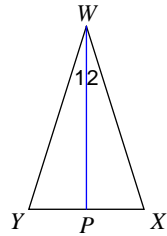
- A) 98° B) 49°
 C) 24.5° D) 196°

21) $m\angle 2 = 56^\circ$. Find $m\angle ECD$.



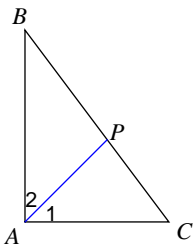
- A) 28° B) 168°
 C) 112° D) 56°

22) $m\angle 1 = 17^\circ$. Find $m\angle YWX$.



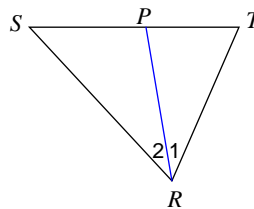
- A) 34° B) 8.5°
 C) 17° D) 51°

23) $m\angle 1 = 45^\circ$. Find $m\angle 2$.



- A) 45° B) 22.5°
 C) 90° D) 180°

24) Find $m\angle TRS$ if $m\angle 1 = 33^\circ$.



- A) 66° B) 16.5°
 C) 99° D) 33°



Answers to Assignment (ID: 9)

1) C
5) A
9) B
13) A
17) B
21) C

2) B
6) A
10) A
14) A
18) B
22) A

3) D
7) C
11) B
15) A
19) A
23) A

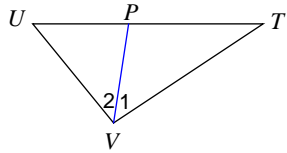
4) C
8) D
12) D
16) B
20) B
24) A



Assignment

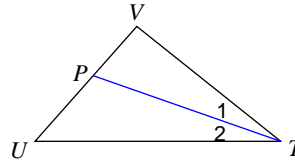
Each figure shows a triangle with one of its angle bisectors.

1) Find $m\angle TVU$ if $m\angle 2 = 48^\circ$.



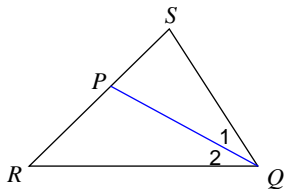
- A) 24°
- B) 144°
- C) 96°
- D) 48°

2) Find $m\angle 1$ if $m\angle 2 = 19^\circ$.



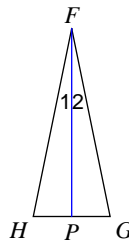
- A) 38°
- B) 19°
- C) 9.5°
- D) 180°

3) $m\angle 1 = 28^\circ$. Find $m\angle SQR$.



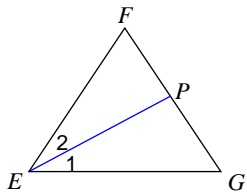
- A) 56°
- B) 84°
- C) 28°
- D) 14°

4) $m\angle HFG = 22^\circ$. Find $m\angle 1$.



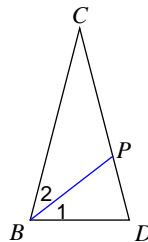
- A) 44°
- B) 22°
- C) 11°
- D) 5.5°

5) Find $m\angle 1$ if $m\angle GEF = 56^\circ$.



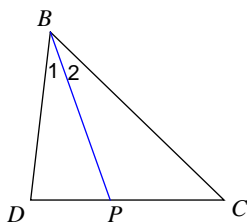
- A) 56°
- B) 28°
- C) 112°
- D) 14°

6) Find $m\angle DBC$ if $m\angle 2 = 38^\circ$.



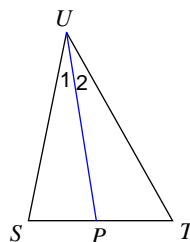
- A) 76°
- B) 114°
- C) 19°
- D) 38°

7) $m\angle 2 = 26^\circ$. Find $m\angle DBC$.



- A) 78°
- B) 52°
- C) 13°
- D) 26°

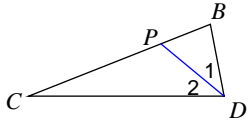
8) Find $m\angle 2$ if $m\angle SUT = 40^\circ$.



- A) 40°
- B) 80°
- C) 10°
- D) 20°

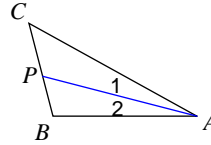


9) Find $m\angle 2$ if $m\angle 1 = 39^\circ$.



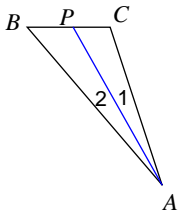
- A) 39° B) 180°
 C) 78° D) 19.5°

10) $m\angle CAB = 28^\circ$. Find $m\angle 1$.



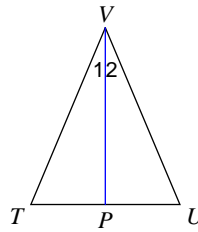
- A) 14° B) 28°
 C) 7° D) 56°

11) $m\angle 2 = 11^\circ$. Find $m\angle 1$.



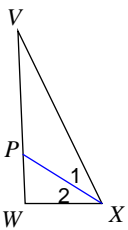
- A) 180° B) 5.5°
 C) 22° D) 11°

12) Find $m\angle 1$ if $m\angle 2 = 23^\circ$.



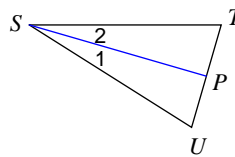
- A) 180° B) 46°
 C) 23° D) 11.5°

13) Find $m\angle VXW$ if $m\angle 1 = 32^\circ$.



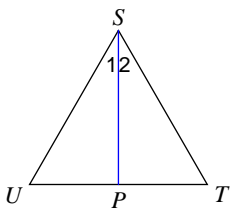
- A) 64° B) 32°
 C) 16° D) 96°

14) Find $m\angle 2$ if $m\angle UST = 32^\circ$.



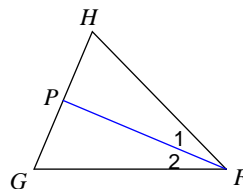
- A) 64° B) 8°
 C) 16° D) 32°

15) $m\angle 1 = 30^\circ$. Find $m\angle UST$.



- A) 15° B) 60°
 C) 90° D) 30°

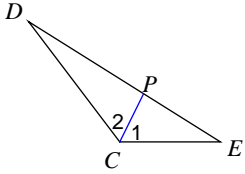
16) $m\angle 2 = 23^\circ$. Find $m\angle HFG$.



- A) 46° B) 69°
 C) 23° D) 11.5°

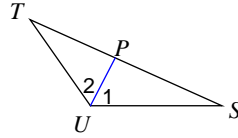


17) $m\angle ECD = 126^\circ$. Find $m\angle 2$.



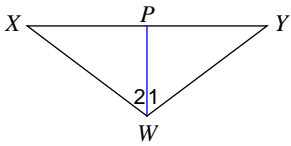
- A) 252° B) 126°
 C) 63° D) 31.5°

18) $m\angle I = 62^\circ$. Find $m\angle SUT$.



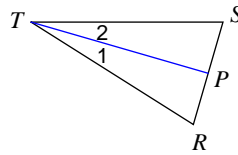
- A) 124° B) 31°
 C) 90° D) 62°

19) $m\angle I = 53^\circ$. Find $m\angle 2$.



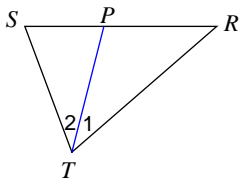
- A) 106° B) 53°
 C) 26.5° D) 180°

20) $m\angle I = 16^\circ$. Find $m\angle RTS$.



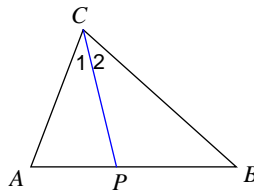
- A) 8° B) 48°
 C) 32° D) 16°

21) $m\angle 2 = 35^\circ$. Find $m\angle RTS$.



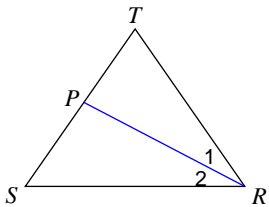
- A) 70° B) 17.5°
 C) 105° D) 35°

22) $m\angle I = 34^\circ$. Find $m\angle ACB$.



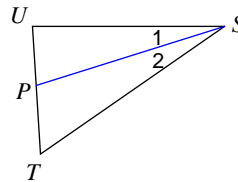
- A) 68° B) 34°
 C) 17° D) 102°

23) $m\angle 2 = 27^\circ$. Find $m\angle 1$.



- A) 13.5° B) 180°
 C) 54° D) 27°

24) $m\angle UST = 34^\circ$. Find $m\angle 1$.



- A) 8.5° B) 34°
 C) 17° D) 68°



Answers to Assignment (ID: 10)

1) C
5) B
9) A
13) A
17) C
21) A

2) B
6) A
10) A
14) C
18) A
22) A

3) A
7) B
11) D
15) B
19) B
23) D

4) C
8) D
12) C
16) A
20) C
24) C

