

## Assignment

Date \_\_\_\_\_ Period \_\_\_\_\_

Find the distance between each pair of points.

1)  $\left(-\frac{1}{2}, \frac{1}{4}\right), \left(\frac{11}{6}, 0\right)$

A)  $\frac{\sqrt{793}}{12}$

B)  $\frac{\sqrt{93}}{6}$

C)  $\frac{\sqrt{247}}{12}$

D)  $\frac{\sqrt{265}}{12}$

2)  $\left(-3\frac{1}{3}, 1\frac{5}{6}\right), \left(1\frac{3}{4}, 1\frac{3}{5}\right)$

A)  $\frac{\sqrt{93221}}{60}$

B)  $\frac{\sqrt{4785}}{30}$

C)  $\frac{\sqrt{33411}}{60}$

D)  $\frac{4\sqrt{13}}{3}$

3)  $\left(-1, \frac{5}{6}\right), \left(2, 3\frac{1}{4}\right)$

A)  $\frac{\sqrt{111}}{6}$

B)  $\frac{\sqrt{2545}}{12}$

C)  $\frac{\sqrt{195}}{6}$

D)  $\frac{\sqrt{2137}}{12}$

4)  $\left(1\frac{1}{2}, -1\frac{3}{4}\right), \left(-\frac{7}{4}, 5\right)$

A)  $\sqrt{10}$

B)  $\frac{\sqrt{42}}{2}$

C)  $\frac{\sqrt{898}}{4}$

D)  $\frac{\sqrt{170}}{4}$

5)  $\left(-3\frac{2}{3}, \frac{5}{6}\right), \left(-2\frac{4}{5}, 1\frac{3}{5}\right)$

A)  $\frac{\sqrt{1205}}{30}$

B)  $\frac{\sqrt{890}}{10}$

C)  $\frac{7\sqrt{30}}{30}$

D)  $\frac{\sqrt{42965}}{30}$

6)  $\left(3\frac{1}{3}, 1\right), \left(-\frac{5}{3}, 3\frac{2}{5}\right)$

A)  $2\frac{11}{15}$

B)  $\frac{\sqrt{769}}{5}$

C)  $\frac{\sqrt{185}}{5}$

D)  $\frac{\sqrt{1213}}{6}$

7)  $\left(3\frac{1}{4}, 0\right), \left(0, 2\frac{1}{3}\right)$

A)  $\frac{\sqrt{2305}}{12}$

B)  $\frac{\sqrt{757}}{4}$

C)  $\frac{\sqrt{737}}{12}$

D)  $\frac{\sqrt{201}}{6}$

8)  $\left(3\frac{1}{4}, -2\right), \left(2\frac{1}{5}, 3\frac{5}{6}\right)$

A)  $\frac{\sqrt{94829}}{60}$

B)  $\frac{\sqrt{6195}}{30}$

C)  $\frac{\sqrt{1021}}{12}$

D)  $\frac{7\sqrt{2581}}{60}$

9)  $\left(1\frac{3}{5}, 2\frac{2}{5}\right), \left(-3\frac{1}{5}, 2\frac{1}{4}\right)$

A)  $2\frac{1}{2}$

B)  $\frac{\sqrt{305}}{4}$

C)  $\frac{3\sqrt{41}}{4}$

D)  $\frac{3\sqrt{55}}{10}$

10)  $\left(3\frac{4}{5}, -3\frac{2}{5}\right), \left(-1\frac{1}{4}, -\frac{1}{2}\right)$

A)  $\frac{\sqrt{13565}}{20}$

B)  $\frac{3\sqrt{965}}{20}$

C)  $\frac{\sqrt{795}}{10}$

D)  $\frac{9\sqrt{43}}{20}$



$$11) \left(-1\frac{1}{4}, -3\frac{1}{4}\right), \left(\frac{3}{5}, \frac{3}{5}\right)$$

$$A) \frac{\sqrt{570}}{10} \quad B) \sqrt{2}$$

$$C) 2\frac{5}{12} \quad D) \frac{\sqrt{7298}}{20}$$

$$12) \left(\frac{1}{5}, -1\right), \left(2\frac{5}{6}, 2\right)$$

$$A) \frac{\sqrt{14341}}{30} \quad B) \frac{13\sqrt{30}}{30}$$

$$C) \frac{\sqrt{9181}}{30} \quad D) \frac{\sqrt{1830}}{30}$$

$$13) \left(1\frac{1}{6}, \frac{5}{6}\right), \left(-\frac{3}{5}, -3\frac{5}{6}\right)$$

$$A) \frac{\sqrt{3210}}{30} \quad B) \frac{\sqrt{5790}}{30}$$

$$C) \frac{\sqrt{22409}}{30} \quad D) \frac{\sqrt{8389}}{30}$$

$$14) \left(\frac{5}{6}, -3\frac{1}{6}\right), \left(2\frac{3}{4}, \frac{1}{2}\right)$$

$$A) \frac{\sqrt{201}}{6} \quad B) \frac{5\sqrt{33}}{12}$$

$$C) \frac{\sqrt{2465}}{12} \quad D) 2\frac{1}{2}$$

$$15) \left(\frac{3}{5}, 1\frac{1}{2}\right), \left(3\frac{1}{3}, \frac{1}{2}\right)$$

$$A) \frac{\sqrt{2581}}{15} \quad B) \frac{2\sqrt{210}}{15}$$

$$C) \frac{\sqrt{4381}}{15} \quad D) \frac{\sqrt{1906}}{15}$$

$$16) \left(\frac{5}{6}, \frac{1}{6}\right), \left(\frac{7}{6}, -2\frac{2}{3}\right)$$

$$A) \frac{\sqrt{114}}{6} \quad B) \frac{\sqrt{41}}{2}$$

$$C) \frac{\sqrt{293}}{6} \quad D) \frac{3\sqrt{2}}{2}$$

$$17) \left(-1\frac{1}{6}, \frac{1}{2}\right), \left(-6\frac{2}{3}, -\frac{5}{6}\right)$$

$$A) \frac{\sqrt{1153}}{6} \quad B) \frac{\sqrt{2213}}{6}$$

$$C) \frac{\sqrt{246}}{6} \quad D) \frac{\sqrt{30}}{2}$$

$$18) \left(6, \frac{1}{5}\right), \left(\frac{2}{3}, \frac{1}{4}\right)$$

$$A) \frac{\sqrt{159271}}{60} \quad B) \frac{\sqrt{102409}}{60}$$

$$C) \frac{\sqrt{4845}}{30} \quad D) \frac{\sqrt{5595}}{30}$$

$$19) \left(\frac{2}{3}, \frac{5}{4}\right), \left(\frac{5}{3}, -\frac{1}{2}\right)$$

$$A) \frac{\sqrt{65}}{4} \quad B) \frac{\sqrt{703}}{12}$$

$$C) \frac{\sqrt{11}}{2} \quad D) \frac{\sqrt{865}}{12}$$

$$20) \left(0, 3\frac{3}{4}\right), (1, 0)$$

$$A) \frac{\sqrt{241}}{4} \quad B) \frac{\sqrt{18629}}{30}$$

$$C) \frac{\sqrt{19}}{2} \quad D) \frac{\sqrt{3121}}{60}$$



$$21) \left(0, 2\frac{1}{2}\right), \left(-5, 3\frac{1}{6}\right)$$

$$A) \frac{\sqrt{229}}{3} \quad B) \frac{4\sqrt{6}}{3}$$

$$C) \frac{\sqrt{514}}{3} \quad D) \frac{\sqrt{51}}{3}$$

$$22) \left(-2, -2\frac{1}{2}\right), \left(-3\frac{5}{6}, 1\frac{2}{5}\right)$$

$$A) \frac{2\sqrt{1846}}{15} \quad B) \frac{\sqrt{1290}}{15}$$

$$C) \frac{\sqrt{31714}}{30} \quad D) \frac{\sqrt{16714}}{30}$$

$$23) \left(\frac{5}{4}, \frac{1}{4}\right), \left(0, -2\frac{5}{6}\right)$$

$$A) \frac{\sqrt{1594}}{12} \quad B) \frac{\sqrt{46}}{3}$$

$$C) \frac{\sqrt{138}}{6} \quad D) \frac{\sqrt{39}}{3}$$

$$24) \left(-\frac{2}{3}, \frac{1}{4}\right), \left(-3\frac{2}{3}, -\frac{1}{2}\right)$$

$$A) \frac{\sqrt{15}}{2} \quad B) \frac{7\sqrt{3}}{6}$$

$$C) \frac{\sqrt{2713}}{12} \quad D) \frac{3\sqrt{17}}{4}$$



## Answers to Assignment (ID: 1)

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

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

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

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



## Assignment

Find the distance between each pair of points.

1)  $\left(-\frac{4}{3}, -1\right), \left(\frac{1}{2}, 5\right)$

- A)  $\frac{\sqrt{551}}{6}$       B)  $\frac{\sqrt{1417}}{6}$   
 C)  $\frac{\sqrt{282}}{6}$       D)  $\frac{\sqrt{174}}{6}$

2)  $\left(-\frac{3}{2}, \frac{2}{3}\right), \left(\frac{4}{3}, -\frac{7}{6}\right)$

- A)  $\frac{\sqrt{42}}{3}$       B)  $\frac{\sqrt{410}}{6}$   
 C)  $\frac{\sqrt{10}}{6}$       D)  $\frac{\sqrt{2}}{3}$

3)  $\left(\frac{1}{3}, \frac{1}{4}\right), \left(2, 2\frac{2}{5}\right)$

- A)  $\frac{\sqrt{3435}}{30}$       B)  $\frac{\sqrt{435}}{30}$   
 C)  $\frac{\sqrt{44881}}{60}$       D)  $\frac{\sqrt{26641}}{60}$

4)  $\left(2, \frac{3}{2}\right), \left(1\frac{3}{5}, -2\frac{3}{4}\right)$

- A)  $\frac{\sqrt{465}}{10}$       B)  $\frac{\sqrt{7289}}{20}$   
 C)  $\frac{\sqrt{5809}}{20}$       D)  $\frac{\sqrt{485}}{10}$

5)  $\left(2, 2\frac{5}{6}\right), \left(-2\frac{1}{6}, 2\right)$

- A)  $\frac{5\sqrt{26}}{6}$       B)  $\sqrt{5}$   
 C)  $\frac{\sqrt{210}}{3}$       D)  $\frac{\sqrt{842}}{6}$

6)  $\left(-\frac{2}{3}, 2\right), (-2, 4)$

- A)  $\frac{\sqrt{30}}{3}$       B)  $\frac{\sqrt{78}}{3}$   
 C)  $\frac{2\sqrt{13}}{3}$       D)  $\frac{2\sqrt{97}}{3}$

7)  $\left(-\frac{4}{5}, -\frac{5}{6}\right), \left(-\frac{11}{6}, -1\right)$

- A)  $\frac{\sqrt{986}}{30}$       B)  $\frac{\sqrt{9266}}{30}$   
 C)  $\frac{\sqrt{30}}{5}$       D)  $\frac{\sqrt{195}}{15}$

8)  $\left(-\frac{4}{5}, 2\frac{1}{6}\right), \left(-\frac{3}{2}, 3\frac{2}{3}\right)$

- A)  $\frac{\sqrt{2605}}{12}$       B)  $\frac{\sqrt{55}}{5}$   
 C)  $\frac{\sqrt{1830}}{15}$       D)  $\frac{\sqrt{274}}{10}$

9)  $\left(-1\frac{1}{6}, 1\right), \left(-2\frac{1}{6}, -3\frac{2}{5}\right)$

- A)  $\frac{\sqrt{509}}{5}$       B)  $\frac{3\sqrt{15}}{5}$   
 C)  $\frac{2\sqrt{949}}{15}$       D)  $\frac{\sqrt{85}}{5}$

10)  $\left(\frac{5}{6}, \frac{1}{3}\right), \left(3\frac{1}{3}, \frac{1}{3}\right)$

- A)  $\frac{\sqrt{10}}{2}$       B)  $2\frac{1}{2}$   
 C)  $\frac{\sqrt{641}}{6}$       D)  $\frac{\sqrt{14}}{2}$



$$11) \left(-2\frac{1}{6}, \frac{5}{6}\right), \left(0, -1\frac{5}{6}\right)$$

$$A) \frac{5\sqrt{17}}{6}$$

$$B) \frac{\sqrt{174}}{6}$$

$$C) \frac{\sqrt{205}}{6}$$

$$D) \frac{\sqrt{8749}}{30}$$

$$12) \left(1\frac{1}{2}, \frac{3}{2}\right), \left(-2\frac{1}{6}, 0\right)$$

$$A) \frac{\sqrt{565}}{6}$$

$$B) \frac{\sqrt{186}}{6}$$

$$C) \frac{\sqrt{65}}{6}$$

$$D) \frac{\sqrt{78}}{6}$$

$$13) \left(1\frac{1}{2}, 3\frac{1}{5}\right), \left(\frac{1}{6}, 2\right)$$

$$A) \frac{\sqrt{570}}{15}$$

$$B) \frac{\sqrt{6709}}{15}$$

$$C) \frac{2\sqrt{181}}{15}$$

$$D) \frac{\sqrt{795}}{15}$$

$$14) \left(\frac{1}{6}, -\frac{1}{2}\right), \left(\frac{2}{5}, \frac{4}{5}\right)$$

$$A) \frac{\sqrt{1570}}{30}$$

$$B) \frac{\sqrt{345}}{15}$$

$$C) \frac{4\sqrt{15}}{15}$$

$$D) \frac{\sqrt{370}}{30}$$

$$15) \left(-3\frac{1}{6}, -5\right), \left(\frac{3}{5}, 2\right)$$

$$A) \frac{\sqrt{56869}}{30}$$

$$B) \frac{\sqrt{14029}}{30}$$

$$C) \frac{\sqrt{9690}}{30}$$

$$D) \frac{\sqrt{2910}}{30}$$

$$16) \left(-3\frac{3}{4}, -2\frac{1}{2}\right), \left(5, \frac{1}{6}\right)$$

$$A) \frac{\sqrt{219}}{6}$$

$$B) \frac{\sqrt{411}}{6}$$

$$C) \frac{\sqrt{12049}}{12}$$

$$D) \frac{\sqrt{1009}}{12}$$

$$17) \left(\frac{1}{2}, 4\right), \left(-1\frac{3}{5}, 3\frac{5}{6}\right)$$

$$A) \frac{\sqrt{2010}}{15}$$

$$B) \frac{\sqrt{3994}}{30}$$

$$C) \frac{\sqrt{510}}{15}$$

$$D) \frac{\sqrt{56314}}{30}$$

$$18) \left(-3\frac{1}{3}, -3\frac{2}{3}\right), (0, 2)$$

$$A) \frac{\sqrt{389}}{3}$$

$$B) 3$$

$$C) \frac{5\sqrt{5}}{3}$$

$$D) \frac{\sqrt{21}}{3}$$

$$19) \left(-2\frac{3}{4}, -\frac{3}{2}\right), \left(-\frac{1}{4}, -2\frac{1}{4}\right)$$

$$A) \frac{3\sqrt{41}}{4}$$

$$B) 2\frac{1}{4}$$

$$C) \frac{\sqrt{13}}{2}$$

$$D) \frac{\sqrt{109}}{4}$$

$$20) \left(1\frac{2}{3}, -2\frac{1}{4}\right), \left(-\frac{5}{3}, -3\right)$$

$$A) \frac{7\sqrt{3}}{6}$$

$$B) \frac{\sqrt{21}}{2}$$

$$C) 5\frac{1}{4}$$

$$D) 3\frac{5}{12}$$



$$21) \left(2\frac{1}{3}, 1\right), \left(-2, -\frac{1}{2}\right)$$

$$A) \frac{\sqrt{757}}{6}$$

$$B) \frac{\sqrt{102}}{6}$$

$$C) \frac{\sqrt{210}}{6}$$

$$D) \frac{\sqrt{3089}}{30}$$

$$22) \left(1\frac{1}{5}, \frac{1}{2}\right), \left(2\frac{2}{3}, -\frac{2}{3}\right)$$

$$A) \frac{11\sqrt{30}}{30}$$

$$B) \frac{\sqrt{13481}}{30}$$

$$C) \frac{\sqrt{3161}}{30}$$

$$D) \frac{\sqrt{2370}}{30}$$

$$23) \left(\frac{1}{4}, \frac{5}{6}\right), \left(\frac{5}{3}, -\frac{3}{2}\right)$$

$$A) \frac{\sqrt{593}}{12}$$

$$B) \frac{\sqrt{1073}}{12}$$

$$C) \frac{\sqrt{465}}{12}$$

$$D) \frac{\sqrt{15}}{2}$$

$$24) \left(-1\frac{1}{4}, -1\frac{1}{6}\right), \left(1, -2\frac{1}{4}\right)$$

$$A) \frac{\sqrt{30}}{3}$$

$$B) \frac{\sqrt{418}}{6}$$

$$C) \frac{\sqrt{730}}{6}$$

$$D) \frac{\sqrt{898}}{12}$$



## Answers to Assignment (ID: 2)

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

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

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

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





## Assignment

Date \_\_\_\_\_ Period \_\_\_\_\_

Find the distance between each pair of points.

1)  $\left(-2, -\frac{5}{4}\right), \left(3\frac{1}{3}, \frac{3}{2}\right)$

A)  $\frac{\sqrt{93}}{6}$

B)  $\frac{\sqrt{265}}{12}$

C)  $\frac{\sqrt{5185}}{12}$

D)  $\frac{\sqrt{291}}{6}$

2)  $\left(-\frac{9}{5}, \frac{3}{4}\right), \left(1\frac{3}{4}, 1\right)$

A)  $\frac{\sqrt{330}}{10}$

B)  $\frac{\sqrt{5066}}{20}$

C)  $\frac{\sqrt{95}}{5}$

D)  $\frac{\sqrt{1226}}{20}$

3)  $\left(\frac{1}{2}, \frac{4}{3}\right), \left(-\frac{3}{5}, \frac{3}{4}\right)$

A)  $\frac{\sqrt{1515}}{30}$

B)  $\frac{\sqrt{5581}}{60}$

C)  $\frac{\sqrt{1965}}{30}$

D)  $\frac{\sqrt{3653}}{12}$

4)  $\left(-\frac{1}{2}, -2\frac{5}{6}\right), \left(1, \frac{1}{2}\right)$

A)  $\frac{\sqrt{205}}{6}$

B)  $\frac{\sqrt{481}}{6}$

C)  $\frac{\sqrt{174}}{6}$

D)  $\frac{\sqrt{102}}{6}$

5)  $\left(-\frac{11}{6}, -1\frac{3}{4}\right), \left(-2\frac{4}{5}, -\frac{5}{3}\right)$

A)  $\frac{\sqrt{105}}{10}$

B)  $\frac{\sqrt{119309}}{60}$

C)  $\frac{\sqrt{3389}}{60}$

D)  $\frac{\sqrt{1095}}{30}$

6)  $\left(-2, -3\frac{1}{6}\right), \left(-\frac{2}{3}, 2\frac{4}{5}\right)$

A)  $\frac{\sqrt{33641}}{30}$

B)  $\frac{\sqrt{4170}}{30}$

C)  $\frac{\sqrt{730}}{10}$

D)  $\frac{\sqrt{6521}}{30}$

7)  $\left(\frac{5}{6}, -\frac{1}{4}\right), \left(\frac{3}{2}, -2\frac{1}{4}\right)$

A)  $\frac{2\sqrt{6}}{3}$

B)  $\frac{\sqrt{174}}{6}$

C)  $\frac{\sqrt{421}}{6}$

D)  $\frac{2\sqrt{10}}{3}$

8)  $(1, -5), \left(1, 3\frac{2}{5}\right)$

A)  $1\frac{1}{5}$

B)  $\frac{2\sqrt{41}}{5}$

C)  $\frac{\sqrt{210}}{5}$

D)  $8\frac{2}{5}$

9)  $\left(-2, 2\frac{5}{6}\right), \left(-1\frac{1}{2}, -1\frac{1}{2}\right)$

A)  $\frac{\sqrt{505}}{6}$

B)  $\frac{\sqrt{377}}{6}$

C)  $\frac{\sqrt{685}}{6}$

D)  $\frac{\sqrt{174}}{6}$

10)  $\left(-3, -1\frac{5}{6}\right), \left(\frac{1}{6}, \frac{1}{6}\right)$

A)  $\frac{\sqrt{505}}{6}$

B)  $\frac{\sqrt{389}}{6}$

C)  $\frac{\sqrt{42}}{6}$

D)  $\frac{\sqrt{186}}{6}$



$$11) \left(\frac{4}{3}, \frac{5}{3}\right), \left(1\frac{2}{3}, -\frac{4}{3}\right)$$

$$A) \frac{4\sqrt{5}}{3}$$

$$B) \frac{\sqrt{82}}{3}$$

$$C) \frac{\sqrt{30}}{3}$$

$$D) \frac{\sqrt{8573}}{12}$$

$$12) \left(\frac{1}{2}, -\frac{7}{5}\right), \left(3\frac{1}{4}, \frac{2}{3}\right)$$

$$A) \frac{\sqrt{42601}}{60}$$

$$B) \frac{17\sqrt{15}}{30}$$

$$C) \frac{\sqrt{52561}}{60}$$

$$D) \frac{\sqrt{4035}}{30}$$

$$13) \left(\frac{1}{3}, \frac{1}{3}\right), (-1, -1)$$

$$A) \frac{4\sqrt{2}}{3}$$

$$B) \frac{\sqrt{545}}{12}$$

$$C) \frac{2\sqrt{2}}{3}$$

$$D) \frac{2\sqrt{6}}{3}$$

$$14) \left(-2, 3\frac{2}{3}\right), \left(\frac{3}{2}, -1\frac{1}{3}\right)$$

$$A) \frac{\sqrt{149}}{2}$$

$$B) \frac{\sqrt{34}}{2}$$

$$C) \frac{\sqrt{187}}{6}$$

$$D) \frac{\sqrt{205}}{6}$$

$$15) \left(-\frac{1}{4}, -\frac{2}{5}\right), \left(\frac{4}{3}, -3\frac{1}{2}\right)$$

$$A) \frac{\sqrt{43621}}{60}$$

$$B) \frac{\sqrt{4215}}{30}$$

$$C) \frac{13\sqrt{349}}{60}$$

$$D) \frac{\sqrt{4485}}{30}$$

$$16) \left(1\frac{1}{5}, -\frac{1}{2}\right), \left(3\frac{2}{3}, \frac{3}{2}\right)$$

$$A) \frac{\sqrt{2269}}{15}$$

$$B) \frac{\sqrt{870}}{15}$$

$$C) \frac{\sqrt{5554}}{15}$$

$$D) \frac{\sqrt{1005}}{15}$$

$$17) \left(2\frac{3}{4}, \frac{6}{5}\right), \left(0, -\frac{1}{6}\right)$$

$$A) \frac{\sqrt{3705}}{30}$$

$$B) \frac{\sqrt{31069}}{60}$$

$$C) \frac{\sqrt{1545}}{30}$$

$$D) \frac{\sqrt{33949}}{60}$$

$$18) \left(-3\frac{1}{4}, -1\right), \left(-\frac{1}{5}, 2\frac{1}{3}\right)$$

$$A) \frac{\sqrt{5745}}{30}$$

$$B) \frac{\sqrt{73489}}{60}$$

$$C) \frac{\sqrt{4305}}{30}$$

$$D) \frac{\sqrt{49249}}{60}$$

$$19) \left(-1\frac{2}{5}, \frac{5}{4}\right), \left(-2, -2\frac{1}{4}\right)$$

$$A) \frac{\sqrt{314}}{5}$$

$$B) \frac{\sqrt{1261}}{10}$$

$$C) \frac{\sqrt{290}}{10}$$

$$D) \frac{\sqrt{410}}{10}$$

$$20) \left(1\frac{3}{5}, -1\frac{1}{4}\right), \left(-\frac{11}{6}, \frac{5}{6}\right)$$

$$A) \frac{\sqrt{429}}{60}$$

$$B) \frac{\sqrt{4965}}{30}$$

$$C) \frac{\sqrt{821}}{60}$$

$$D) \frac{\sqrt{58061}}{60}$$



$$21) \left(-1\frac{1}{4}, 1\frac{1}{6}\right), \left(\frac{2}{5}, \frac{1}{2}\right)$$

$$A) \frac{\sqrt{12601}}{60}$$

$$B) \frac{\sqrt{2265}}{30}$$

$$C) \frac{\sqrt{2085}}{30}$$

$$D) \frac{\sqrt{11401}}{60}$$

$$22) \left(-1\frac{1}{5}, -\frac{1}{2}\right), \left(2\frac{3}{5}, 3\frac{2}{5}\right)$$

$$A) \frac{\sqrt{770}}{10}$$

$$B) \frac{\sqrt{6}}{2}$$

$$C) \frac{\sqrt{2965}}{10}$$

$$D) \frac{\sqrt{10321}}{20}$$

$$23) \left(-1\frac{5}{6}, -2\right), \left(-\frac{3}{2}, 0\right)$$

$$A) \frac{\sqrt{37}}{3}$$

$$B) \frac{\sqrt{15}}{3}$$

$$C) \frac{2\sqrt{34}}{3}$$

$$D) \frac{\sqrt{21}}{3}$$

$$24) \left(-2\frac{4}{5}, -1\right), \left(-1\frac{4}{5}, 1\frac{1}{6}\right)$$

$$A) \frac{\sqrt{114}}{6}$$

$$B) \frac{\sqrt{4290}}{30}$$

$$C) \frac{\sqrt{205}}{6}$$

$$D) \frac{\sqrt{19019}}{30}$$



## Answers to Assignment (ID: 3)

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

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

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

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



## Assignment

Find the distance between each pair of points.

1)  $\left(-3\frac{5}{6}, \frac{1}{3}\right), \left(-1, \frac{2}{3}\right)$

A)  $\frac{\sqrt{114}}{6}$

B)  $\frac{\sqrt{877}}{6}$

C)  $\frac{\sqrt{293}}{6}$

D)  $\frac{\sqrt{210}}{6}$

2)  $\left(\frac{1}{6}, -\frac{1}{4}\right), \left(4, -\frac{4}{5}\right)$

A)  $\frac{\sqrt{4695}}{30}$

B)  $\frac{\sqrt{66469}}{60}$

C)  $\frac{\sqrt{3945}}{30}$

D)  $\frac{\sqrt{53989}}{60}$

3)  $\left(3\frac{1}{3}, 1\right), \left(\frac{4}{5}, \frac{1}{6}\right)$

A)  $\frac{\sqrt{2670}}{30}$

B)  $\frac{\sqrt{16601}}{30}$

C)  $\frac{\sqrt{6401}}{30}$

D)  $\frac{\sqrt{3030}}{30}$

4)  $\left(-1\frac{1}{2}, 3\frac{1}{3}\right), \left(-1\frac{1}{2}, 3\frac{1}{3}\right)$

A)  $\frac{\sqrt{319}}{3}$

B)  $\frac{\sqrt{481}}{3}$

C) 0

D)  $\frac{\sqrt{87}}{3}$

5)  $\left(1\frac{1}{2}, \frac{1}{6}\right), \left(\frac{3}{4}, -\frac{9}{5}\right)$

A)  $\frac{\sqrt{15949}}{60}$

B)  $\frac{\sqrt{3495}}{30}$

C)  $\frac{\sqrt{2445}}{30}$

D)  $\frac{\sqrt{8621}}{60}$

6)  $\left(3\frac{2}{3}, \frac{1}{2}\right), \left(-\frac{5}{6}, -\frac{6}{5}\right)$

A)  $\frac{\sqrt{2314}}{10}$

B)  $\frac{\sqrt{155}}{5}$

C)  $\frac{\sqrt{795}}{15}$

D)  $\frac{\sqrt{7666}}{30}$

7)  $\left(0, -\frac{1}{3}\right), \left(3\frac{1}{4}, -2\right)$

A)  $\frac{\sqrt{177}}{6}$

B)  $\frac{\sqrt{2305}}{12}$

C)  $\frac{\sqrt{201}}{6}$

D)  $\frac{\sqrt{1921}}{12}$

8)  $\left(1\frac{1}{2}, -1\frac{3}{4}\right), \left(-3\frac{1}{2}, -3\frac{5}{6}\right)$

A)  $\frac{\sqrt{5065}}{12}$

B)  $\frac{\sqrt{129}}{6}$

C)  $\frac{\sqrt{255}}{6}$

D)  $5\frac{5}{12}$

9)  $\left(-1, 3\frac{2}{3}\right), \left(2, -3\frac{1}{5}\right)$

A)  $\frac{\sqrt{689}}{10}$

B)  $\frac{2\sqrt{555}}{15}$

C)  $\frac{4\sqrt{11}}{15}$

D)  $\frac{\sqrt{12634}}{15}$

10)  $\left(-\frac{2}{3}, -1\frac{1}{3}\right), \left(-2, -2\frac{3}{5}\right)$

A)  $\frac{\sqrt{5081}}{15}$

B)  $\frac{\sqrt{65}}{5}$

C)  $\frac{\sqrt{761}}{15}$

D)  $\frac{\sqrt{285}}{15}$



$$11) \left(-\frac{3}{4}, 3\frac{1}{6}\right), \left(\frac{7}{5}, -2\right)$$

$$A) \frac{\sqrt{130}}{6}$$

$$B) \frac{\sqrt{6421}}{60}$$

$$C) \frac{\sqrt{6585}}{30}$$

$$D) \frac{\sqrt{112741}}{60}$$

$$12) \left(\frac{5}{4}, -\frac{11}{6}\right), \left(3\frac{1}{2}, 2\frac{1}{3}\right)$$

$$A) \frac{\sqrt{365}}{4}$$

$$B) \frac{\sqrt{231}}{6}$$

$$C) \frac{\sqrt{17}}{2}$$

$$D) \frac{\sqrt{3229}}{12}$$

$$13) \left(-\frac{7}{5}, 2\frac{1}{3}\right), \left(3, -1\frac{1}{3}\right)$$

$$A) \frac{\sqrt{39}}{5}$$

$$B) \frac{11\sqrt{61}}{15}$$

$$C) \frac{\sqrt{89}}{5}$$

$$D) \frac{11\sqrt{15}}{15}$$

$$14) \left(-\frac{4}{3}, -2\right), \left(2\frac{1}{4}, -\frac{4}{3}\right)$$

$$A) \frac{\sqrt{1479}}{12}$$

$$B) \frac{\sqrt{1721}}{12}$$

$$C) \frac{\sqrt{17}}{2}$$

$$D) \frac{\sqrt{1913}}{12}$$

$$15) \left(\frac{3}{4}, \frac{1}{6}\right), \left(2\frac{2}{5}, -2\right)$$

$$A) \frac{\sqrt{4485}}{30}$$

$$B) \frac{\sqrt{26701}}{60}$$

$$C) \frac{\sqrt{47821}}{60}$$

$$D) \frac{\sqrt{3435}}{30}$$

$$16) \left(\frac{7}{6}, -\frac{4}{5}\right), \left(\frac{5}{3}, 2\right)$$

$$A) \frac{\sqrt{37}}{3}$$

$$B) \frac{\sqrt{809}}{10}$$

$$C) \frac{\sqrt{330}}{10}$$

$$D) \frac{\sqrt{230}}{10}$$

$$17) \left(-2, \frac{5}{3}\right), \left(-\frac{1}{6}, -\frac{2}{5}\right)$$

$$A) \frac{\sqrt{6869}}{30}$$

$$B) \frac{\sqrt{309}}{10}$$

$$C) \frac{\sqrt{5669}}{30}$$

$$D) \frac{\sqrt{390}}{10}$$

$$18) \left(-2, \frac{2}{3}\right), \left(2\frac{3}{4}, \frac{4}{5}\right)$$

$$A) \frac{\sqrt{4395}}{30}$$

$$B) \frac{\sqrt{4155}}{30}$$

$$C) \frac{13\sqrt{481}}{60}$$

$$D) \frac{\sqrt{9769}}{60}$$

$$19) \left(0, -\frac{3}{2}\right), \left(-2\frac{1}{3}, -1\frac{1}{3}\right)$$

$$A) \frac{\sqrt{197}}{6}$$

$$B) \frac{\sqrt{93}}{6}$$

$$C) \frac{\sqrt{485}}{6}$$

$$D) \frac{\sqrt{10}}{2}$$

$$20) \left(-\frac{3}{5}, -1\right), \left(\frac{3}{4}, 0\right)$$

$$A) \frac{\sqrt{185}}{4}$$

$$B) \frac{\sqrt{115}}{10}$$

$$C) \frac{\sqrt{1129}}{20}$$

$$D) \frac{\sqrt{235}}{10}$$



$$21) \left(1, 1\frac{3}{5}\right), \left(-3\frac{1}{4}, 5\frac{1}{3}\right)$$

$$A) \frac{\sqrt{7185}}{30}$$

$$B) \frac{\sqrt{154831}}{60}$$

$$C) \frac{\sqrt{8265}}{30}$$

$$D) \frac{\sqrt{115201}}{60}$$

$$22) \left(\frac{1}{3}, 1\frac{1}{2}\right), \left(-2, \frac{3}{4}\right)$$

$$A) \frac{\sqrt{141}}{6}$$

$$B) \frac{\sqrt{1129}}{12}$$

$$C) \frac{\sqrt{111}}{6}$$

$$D) \frac{\sqrt{865}}{12}$$

$$23) \left(3\frac{2}{3}, 2\right), \left(-\frac{4}{5}, \frac{5}{6}\right)$$

$$A) \frac{13\sqrt{30}}{30}$$

$$B) \frac{\sqrt{330}}{10}$$

$$C) \frac{\sqrt{14621}}{30}$$

$$D) \frac{\sqrt{19181}}{30}$$

$$24) \left(-2\frac{1}{2}, -2\frac{1}{6}\right), \left(6\frac{4}{5}, 3\frac{1}{5}\right)$$

$$A) \frac{\sqrt{103762}}{30}$$

$$B) \frac{\sqrt{885}}{15}$$

$$C) \frac{\sqrt{17602}}{30}$$

$$D) \frac{2\sqrt{33}}{3}$$



## Answers to Assignment (ID: 4)

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

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

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

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





## Assignment

Date \_\_\_\_\_ Period \_\_\_\_\_

Find the distance between each pair of points.

1)  $\left(2\frac{2}{3}, \frac{2}{3}\right), (1, 2)$

- A)  $\frac{\sqrt{57}}{3}$       B)  $\frac{\sqrt{41}}{3}$   
 C)  $\frac{\sqrt{185}}{3}$       D)  $\sqrt{3}$

2)  $\left(-3\frac{1}{2}, \frac{1}{2}\right), \left(-5\frac{4}{5}, -2\right)$

- A)  $\frac{3\sqrt{986}}{10}$       B)  $\frac{2\sqrt{30}}{5}$   
 C)  $\frac{\sqrt{1154}}{10}$       D)  $\frac{\sqrt{195}}{5}$

3)  $\left(2\frac{2}{3}, 2\frac{1}{2}\right), \left(\frac{3}{4}, 2\frac{2}{3}\right)$

- A)  $\frac{5\sqrt{221}}{12}$       B)  $\frac{\sqrt{2163}}{12}$   
 C)  $\frac{\sqrt{533}}{12}$       D)  $\frac{5\sqrt{3}}{6}$

4)  $\left(6, \frac{8}{5}\right), \left(0, \frac{1}{2}\right)$

- A)  $\frac{\sqrt{710}}{10}$       B)  $6\frac{1}{10}$   
 C)  $\frac{7\sqrt{10}}{10}$       D)  $\frac{3\sqrt{449}}{10}$

5)  $\left(1\frac{2}{3}, -2\right), \left(\frac{1}{2}, -1\right)$

- A)  $\frac{\sqrt{493}}{6}$       B)  $\frac{\sqrt{186}}{6}$   
 C)  $\frac{\sqrt{78}}{6}$       D)  $\frac{\sqrt{85}}{6}$

6)  $\left(\frac{3}{4}, 0\right), \left(-2, \frac{1}{2}\right)$

- A)  $\frac{\sqrt{21}}{4}$       B)  $\frac{5\sqrt{5}}{4}$   
 C)  $\frac{\sqrt{13}}{2}$       D)  $\frac{\sqrt{29}}{4}$

7)  $\left(\frac{3}{4}, 1\right), \left(-\frac{4}{3}, 6\right)$

- A)  $\frac{\sqrt{255}}{6}$       B)  $5\frac{5}{12}$   
 C)  $\frac{7\sqrt{145}}{12}$       D)  $\frac{\sqrt{273}}{6}$

8)  $\left(\frac{1}{3}, 1\right), \left(3\frac{1}{2}, -1\frac{5}{6}\right)$

- A)  $\frac{13\sqrt{2}}{6}$       B)  $\sqrt{6}$   
 C)  $\frac{5\sqrt{26}}{6}$       D)  $\frac{\sqrt{554}}{6}$

9)  $\left(-1\frac{1}{4}, 3\frac{1}{2}\right), \left(-\frac{4}{3}, 2\frac{2}{3}\right)$

- A)  $\frac{\sqrt{35}}{2}$       B)  $\frac{\sqrt{101}}{12}$   
 C)  $\frac{\sqrt{6437}}{12}$       D)  $\frac{\sqrt{33}}{6}$

10)  $\left(-1\frac{1}{5}, 2\frac{3}{4}\right), \left(-3\frac{1}{3}, -3\frac{5}{6}\right)$

- A)  $\frac{\sqrt{7845}}{30}$       B)  $\frac{\sqrt{445}}{10}$   
 C)  $\frac{\sqrt{78209}}{60}$       D)  $\frac{\sqrt{172409}}{60}$



$$11) \left(-1\frac{1}{6}, -3\frac{1}{3}\right), \left(-2\frac{1}{2}, -2\right)$$

$$A) \frac{\sqrt{377}}{3}$$

$$B) \frac{4\sqrt{2}}{3}$$

$$C) \frac{2\sqrt{6}}{3}$$

$$D) \frac{\sqrt{1753}}{12}$$

$$12) \left(-1\frac{1}{6}, 3\frac{2}{3}\right), \left(2\frac{1}{2}, -\frac{4}{5}\right)$$

$$A) \frac{\sqrt{1830}}{15}$$

$$B) \frac{17\sqrt{26}}{15}$$

$$C) \frac{\sqrt{205}}{12}$$

$$D) \frac{\sqrt{43553}}{30}$$

$$13) \left(-\frac{8}{5}, 3\frac{1}{6}\right), (2, 0)$$

$$A) \frac{\sqrt{20689}}{30}$$

$$B) \frac{\sqrt{1322}}{10}$$

$$C) \frac{\sqrt{2341}}{12}$$

$$D) \frac{\sqrt{6090}}{30}$$

$$14) \left(-1\frac{3}{5}, -1\frac{3}{4}\right), \left(\frac{2}{3}, \frac{1}{3}\right)$$

$$A) \frac{\sqrt{435}}{10}$$

$$B) \frac{\sqrt{4089}}{60}$$

$$C) \frac{\sqrt{34121}}{60}$$

$$D) \frac{\sqrt{435}}{30}$$

$$15) \left(1, 2\frac{2}{3}\right), \left(\frac{1}{3}, -2\frac{2}{3}\right)$$

$$A) \frac{\sqrt{42}}{3}$$

$$B) \frac{2\sqrt{65}}{3}$$

$$C) \sqrt{6}$$

$$D) 1\frac{1}{3}$$

$$16) \left(-1, -\frac{2}{3}\right), \left(-\frac{4}{3}, -\frac{1}{3}\right)$$

$$A) \frac{2\sqrt{3}}{3}$$

$$B) \frac{\sqrt{2}}{3}$$

$$C) \frac{\sqrt{6}}{3}$$

$$D) \frac{\sqrt{58}}{3}$$

$$17) \left(\frac{4}{3}, 2\right), \left(-1\frac{5}{6}, -\frac{3}{5}\right)$$

$$A) \frac{\sqrt{5190}}{30}$$

$$B) \frac{\sqrt{190}}{10}$$

$$C) \frac{\sqrt{221}}{10}$$

$$D) \frac{\sqrt{15109}}{30}$$

$$18) \left(-\frac{3}{2}, -3\frac{2}{5}\right), (2, 1)$$

$$A) \frac{\sqrt{601}}{10}$$

$$B) \frac{\sqrt{3161}}{10}$$

$$C) \frac{\sqrt{790}}{10}$$

$$D) \frac{\sqrt{290}}{10}$$

$$19) (2, 4), \left(1\frac{3}{5}, -2\frac{5}{6}\right)$$

$$A) \frac{\sqrt{42169}}{30}$$

$$B) \frac{\sqrt{6510}}{30}$$

$$C) \frac{\sqrt{12889}}{30}$$

$$D) \frac{\sqrt{5790}}{30}$$

$$20) \left(\frac{7}{6}, -\frac{2}{5}\right), \left(1\frac{3}{4}, 1\right)$$

$$A) \frac{\sqrt{31921}}{60}$$

$$B) \frac{\sqrt{2085}}{30}$$

$$C) 1\frac{31}{60}$$

$$D) \frac{\sqrt{1785}}{30}$$



$$21) \left(1, \frac{2}{3}\right), \left(\frac{1}{3}, -\frac{1}{2}\right)$$

$$A) \frac{\sqrt{1765}}{12} \quad B) \frac{\sqrt{65}}{6}$$

$$C) \frac{\sqrt{66}}{6} \quad D) \frac{\sqrt{42}}{6}$$

$$22) \left(-\frac{3}{2}, 3\frac{1}{5}\right), \left(3\frac{3}{5}, 0\right)$$

$$A) \frac{\sqrt{830}}{10} \quad B) \frac{\sqrt{145}}{2}$$

$$C) \frac{\sqrt{1465}}{10} \quad D) \frac{\sqrt{583}}{10}$$

$$23) \left(\frac{1}{3}, 2\frac{1}{5}\right), \left(-3, \frac{1}{2}\right)$$

$$A) \frac{\sqrt{12601}}{30} \quad B) \frac{\sqrt{4530}}{30}$$

$$C) \frac{\sqrt{4830}}{30} \quad D) \frac{\sqrt{12961}}{30}$$

$$24) \left(-\frac{7}{4}, 2\right), \left(\frac{1}{3}, -2\frac{1}{6}\right)$$

$$A) \frac{\sqrt{293}}{12} \quad B) 2\frac{1}{2}$$

$$C) \frac{25\sqrt{5}}{12} \quad D) \frac{\sqrt{285}}{12}$$



## Answers to Assignment (ID: 5)

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

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

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

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



## Assignment

Date \_\_\_\_\_ Period \_\_\_\_\_

Find the distance between each pair of points.

1)  $\left(0, \frac{1}{4}\right), \left(1, -\frac{7}{6}\right)$

A)  $\frac{\sqrt{87}}{6}$

B)  $\frac{\sqrt{23}}{12}$

C)  $\frac{\sqrt{265}}{12}$

D)  $\frac{\sqrt{433}}{12}$

2)  $\left(2, \frac{7}{4}\right), \left(-\frac{9}{5}, 1\frac{1}{2}\right)$

A)  $\frac{\sqrt{4241}}{20}$

B)  $\frac{9\sqrt{5}}{10}$

C)  $\frac{\sqrt{5801}}{20}$

D)  $\frac{\sqrt{355}}{10}$

3)  $\left(-\frac{7}{5}, 3\frac{1}{2}\right), \left(\frac{1}{2}, 2\right)$

A)  $\frac{\sqrt{3106}}{10}$

B)  $\frac{\sqrt{586}}{10}$

C)  $\frac{4\sqrt{10}}{5}$

D)  $\frac{\sqrt{85}}{5}$

4)  $\left(-5, -3\frac{3}{4}\right), \left(1\frac{2}{3}, -\frac{1}{4}\right)$

A)  $\frac{\sqrt{366}}{6}$

B)  $\frac{2\sqrt{61}}{3}$

C)  $\frac{\sqrt{114}}{6}$

D)  $\frac{\sqrt{2041}}{6}$

5)  $\left(-\frac{8}{5}, \frac{3}{2}\right), \left(5\frac{5}{6}, \frac{3}{2}\right)$

A)  $7\frac{13}{30}$

B)  $\frac{\sqrt{24229}}{30}$

C)  $\frac{\sqrt{75721}}{60}$

D)  $\frac{\sqrt{6690}}{30}$

6)  $\left(-2\frac{3}{5}, 1\frac{1}{6}\right), \left(-3\frac{1}{4}, \frac{1}{5}\right)$

A)  $\frac{\sqrt{1455}}{30}$

B)  $\frac{\sqrt{6495}}{30}$

C)  $\frac{\sqrt{4885}}{60}$

D)  $\frac{\sqrt{116477}}{60}$

7)  $\left(-2\frac{3}{4}, 3\frac{1}{4}\right), \left(-3\frac{1}{3}, -2\frac{1}{5}\right)$

A)  $\frac{\sqrt{137194}}{60}$

B)  $\frac{\sqrt{108154}}{60}$

C)  $\frac{\sqrt{5430}}{30}$

D)  $\frac{\sqrt{1605}}{15}$

8)  $\left(3\frac{1}{2}, 3\frac{1}{3}\right), \left(-2\frac{3}{4}, \frac{2}{3}\right)$

A)  $\frac{\sqrt{6649}}{12}$

B)  $\frac{\sqrt{321}}{6}$

C)  $\frac{\sqrt{265}}{4}$

D)  $\frac{\sqrt{129}}{6}$

9)  $\left(-3\frac{1}{6}, \frac{7}{6}\right), \left(3\frac{2}{3}, -\frac{5}{3}\right)$

A)  $\frac{\sqrt{87}}{3}$

B)  $\frac{\sqrt{1970}}{6}$

C)  $\frac{\sqrt{1522}}{6}$

D)  $\frac{\sqrt{2}}{2}$

10)  $\left(2\frac{1}{2}, -\frac{5}{3}\right), \left(-1, -1\frac{3}{4}\right)$

A)  $\frac{\sqrt{177}}{6}$

B)  $\frac{\sqrt{129}}{6}$

C)  $\frac{\sqrt{1765}}{12}$

D)  $\frac{\sqrt{2005}}{12}$



$$11) \left(-3\frac{1}{6}, \frac{1}{6}\right), (1, -2)$$

$$A) \frac{\sqrt{794}}{6}$$

$$B) \frac{\sqrt{57}}{3}$$

$$C) \frac{2\sqrt{3}}{3}$$

$$D) \frac{\sqrt{290}}{6}$$

$$12) \left(2\frac{1}{2}, 1\frac{3}{4}\right), \left(\frac{3}{2}, \frac{1}{6}\right)$$

$$A) \frac{\sqrt{93}}{6}$$

$$B) \frac{\sqrt{505}}{12}$$

$$C) \frac{\sqrt{2833}}{12}$$

$$D) \frac{5\sqrt{3}}{6}$$

$$13) \left(4, -2\frac{1}{3}\right), \left(\frac{1}{6}, 2\frac{1}{4}\right)$$

$$A) \frac{7\sqrt{51}}{12}$$

$$B) \frac{\sqrt{2501}}{12}$$

$$C) \frac{\sqrt{5141}}{12}$$

$$D) \frac{\sqrt{303}}{6}$$

$$14) \left(-1\frac{1}{2}, 3\frac{1}{4}\right), \left(3\frac{1}{5}, \frac{7}{6}\right)$$

$$A) \frac{\sqrt{59821}}{60}$$

$$B) \frac{\sqrt{6105}}{30}$$

$$C) \frac{\sqrt{80629}}{60}$$

$$D) \frac{\sqrt{95149}}{60}$$

$$15) \left(1\frac{1}{3}, -2\right), \left(-\frac{2}{3}, -2\right)$$

$$A) 2$$

$$B) \frac{2\sqrt{37}}{3}$$

$$C) \sqrt{2}$$

$$D) \frac{\sqrt{42}}{3}$$

$$16) \left(1\frac{1}{3}, -1\right), \left(-\frac{2}{5}, 4\right)$$

$$A) \frac{\sqrt{6301}}{15}$$

$$B) \frac{\sqrt{1829}}{15}$$

$$C) \frac{\sqrt{2221}}{15}$$

$$D) \frac{\sqrt{1515}}{15}$$

$$17) \left(\frac{2}{3}, -3\frac{1}{6}\right), \left(3\frac{1}{6}, 0\right)$$

$$A) \sqrt{7}$$

$$B) \frac{\sqrt{42}}{3}$$

$$C) \frac{\sqrt{586}}{6}$$

$$D) \frac{\sqrt{51}}{3}$$

$$18) \left(-2\frac{1}{2}, -\frac{9}{5}\right), \left(\frac{1}{2}, \frac{3}{5}\right)$$

$$A) \frac{3\sqrt{41}}{5}$$

$$B) \frac{3\sqrt{15}}{5}$$

$$C) \frac{2\sqrt{5}}{5}$$

$$D) \frac{2\sqrt{34}}{5}$$

$$19) \left(-3\frac{1}{2}, 1\frac{3}{5}\right), \left(-3\frac{5}{6}, -\frac{4}{3}\right)$$

$$A) \frac{\sqrt{1961}}{15}$$

$$B) \frac{\sqrt{190}}{5}$$

$$C) \frac{7\sqrt{15}}{15}$$

$$D) \frac{2\sqrt{3021}}{15}$$

$$20) \left(\frac{8}{5}, \frac{2}{5}\right), \left(\frac{8}{5}, \frac{1}{3}\right)$$

$$A) \frac{1}{15}$$

$$B) \frac{\sqrt{15}}{15}$$

$$C) \frac{\sqrt{555}}{15}$$

$$D) \frac{\sqrt{97}}{3}$$



$$21) \left(\frac{1}{3}, 0\right), \left(-\frac{2}{5}, -\frac{1}{5}\right)$$

$$A) \frac{\sqrt{130}}{15} \quad B) \frac{\sqrt{210}}{15}$$

$$C) \frac{\sqrt{10}}{15} \quad D) \frac{2\sqrt{30}}{15}$$

$$22) \left(-\frac{1}{4}, \frac{2}{3}\right), \left(-3\frac{1}{2}, 1\right)$$

$$A) \frac{\sqrt{1537}}{12} \quad B) \frac{\sqrt{129}}{6}$$

$$C) \frac{\sqrt{195}}{6} \quad D) \frac{5\sqrt{97}}{12}$$

$$23) \left(\frac{3}{2}, -2\frac{1}{2}\right), \left(-\frac{4}{3}, -1\right)$$

$$A) \frac{\sqrt{442}}{6} \quad B) \frac{\sqrt{370}}{6}$$

$$C) \frac{\sqrt{39}}{3} \quad D) \frac{\sqrt{110}}{3}$$

$$24) (-1, -5), \left(-\frac{1}{6}, 1\frac{4}{5}\right)$$

$$A) \frac{\sqrt{42241}}{30} \quad B) \frac{\sqrt{6870}}{30}$$

$$C) \frac{\sqrt{5370}}{30} \quad D) \frac{\sqrt{10441}}{30}$$



## Answers to Assignment (ID: 6)

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

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

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

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





## Assignment

Find the distance between each pair of points.

1)  $\left(\frac{5}{3}, 1\right), \left(-\frac{3}{2}, 1\right)$

A)  $\frac{\sqrt{143}}{6}$

B)  $3\frac{1}{6}$

C)  $\frac{\sqrt{145}}{6}$

D)  $\frac{\sqrt{114}}{6}$

2)  $\left(\frac{5}{4}, -1\right), \left(1\frac{4}{5}, -\frac{2}{3}\right)$

A)  $\frac{\sqrt{23489}}{60}$

B)  $\frac{\sqrt{795}}{30}$

C)  $\frac{\sqrt{4245}}{30}$

D)  $\frac{\sqrt{1489}}{60}$

3)  $\left(-1, \frac{9}{5}\right), \left(2\frac{5}{6}, 3\frac{5}{6}\right)$

A)  $\frac{2\sqrt{330}}{15}$

B)  $\frac{\sqrt{31586}}{30}$

C)  $\frac{\sqrt{95}}{5}$

D)  $\frac{\sqrt{16946}}{30}$

4)  $\left(-\frac{8}{5}, -3\frac{1}{2}\right), \left(3\frac{1}{2}, -\frac{11}{6}\right)$

A)  $\frac{\sqrt{22351}}{30}$

B)  $\frac{\sqrt{25909}}{30}$

C)  $\frac{\sqrt{6090}}{30}$

D)  $\frac{\sqrt{6510}}{30}$

5)  $\left(-\frac{9}{5}, -1\right), \left(-1\frac{2}{3}, \frac{5}{6}\right)$

A)  $\frac{\sqrt{330}}{10}$

B)  $\frac{\sqrt{1770}}{30}$

C)  $\frac{\sqrt{3041}}{30}$

D)  $\frac{\sqrt{10841}}{30}$

6)  $\left(\frac{5}{3}, -2\frac{4}{5}\right), \left(\frac{1}{3}, \frac{1}{6}\right)$

A)  $\frac{\sqrt{9841}}{30}$

B)  $\frac{\sqrt{430}}{10}$

C)  $\frac{\sqrt{4170}}{30}$

D)  $\frac{\sqrt{9521}}{30}$

7)  $\left(-\frac{1}{5}, -3\frac{1}{4}\right), \left(-2\frac{1}{2}, -2\frac{1}{6}\right)$

A)  $\frac{\sqrt{3045}}{30}$

B)  $\frac{\sqrt{131869}}{60}$

C)  $\frac{\sqrt{23269}}{60}$

D)  $\frac{\sqrt{79381}}{60}$

8)  $\left(\frac{3}{2}, 2\frac{5}{6}\right), \left(\frac{1}{3}, -\frac{5}{3}\right)$

A)  $\frac{\sqrt{778}}{6}$

B)  $\frac{\sqrt{51}}{3}$

C)  $\frac{\sqrt{170}}{6}$

D)  $\frac{\sqrt{30}}{3}$

9)  $\left(0, -2\frac{1}{6}\right), \left(\frac{1}{3}, -2\frac{2}{3}\right)$

A)  $\frac{13\sqrt{5}}{6}$

B)  $\frac{\sqrt{186}}{6}$

C)  $\frac{\sqrt{30}}{6}$

D)  $\frac{\sqrt{13}}{6}$

10)  $\left(-\frac{1}{3}, 3\frac{1}{4}\right), \left(-1\frac{1}{4}, -\frac{3}{4}\right)$

A)  $\frac{\sqrt{177}}{6}$

B)  $\frac{5\sqrt{97}}{12}$

C)  $\frac{\sqrt{3961}}{12}$

D)  $\frac{7\sqrt{3}}{6}$



$$11) \left(2, -\frac{3}{4}\right), \left(-\frac{1}{2}, \frac{5}{3}\right)$$

$$A) \frac{\sqrt{1741}}{12}$$

$$B) \frac{\sqrt{445}}{12}$$

$$C) \frac{\sqrt{203}}{12}$$

$$D) \frac{\sqrt{177}}{6}$$

$$12) \left(1\frac{1}{2}, -\frac{6}{5}\right), \left(-2\frac{1}{3}, \frac{1}{5}\right)$$

$$A) \frac{\sqrt{11}}{6}$$

$$B) \frac{\sqrt{61}}{6}$$

$$C) \frac{\sqrt{14989}}{30}$$

$$D) \frac{\sqrt{4710}}{30}$$

$$13) \left(-1\frac{3}{4}, \frac{1}{5}\right), \left(3\frac{2}{3}, -1\right)$$

$$A) \frac{\sqrt{5955}}{30}$$

$$B) \frac{\sqrt{145}}{12}$$

$$C) \frac{\sqrt{15529}}{60}$$

$$D) \frac{\sqrt{110809}}{60}$$

$$14) \left(\frac{1}{3}, 3\frac{1}{6}\right), (0, 2)$$

$$A) \frac{\sqrt{174}}{6}$$

$$B) \frac{\sqrt{53}}{6}$$

$$C) \frac{\sqrt{965}}{6}$$

$$D) \frac{\sqrt{6}}{2}$$

$$15) \left(-1\frac{3}{4}, 3\frac{1}{2}\right), \left(-1, 2\frac{1}{5}\right)$$

$$A) \frac{\sqrt{901}}{20}$$

$$B) \frac{\sqrt{16021}}{20}$$

$$C) \frac{\sqrt{205}}{10}$$

$$D) \frac{13\sqrt{5}}{10}$$

$$16) \left(-2\frac{3}{4}, \frac{1}{2}\right), \left(-3\frac{3}{5}, -3\frac{3}{5}\right)$$

$$A) \frac{\sqrt{13}}{2}$$

$$B) \frac{\sqrt{19973}}{20}$$

$$C) \frac{3\sqrt{55}}{10}$$

$$D) \frac{\sqrt{7013}}{20}$$

$$17) \left(-2\frac{2}{3}, -6\right), \left(\frac{1}{3}, -\frac{7}{5}\right)$$

$$A) \frac{\sqrt{13546}}{15}$$

$$B) \frac{\sqrt{190}}{5}$$

$$C) \frac{2\sqrt{285}}{15}$$

$$D) \frac{\sqrt{754}}{5}$$

$$18) \left(-1\frac{2}{3}, 1\frac{5}{6}\right), \left(\frac{5}{3}, \frac{1}{5}\right)$$

$$A) \frac{\sqrt{514}}{5}$$

$$B) \frac{\sqrt{12401}}{30}$$

$$C) \frac{\sqrt{4470}}{30}$$

$$D) 2\frac{1}{30}$$

$$19) \left(-2\frac{2}{5}, \frac{2}{3}\right), \left(2, 1\frac{1}{2}\right)$$

$$A) \frac{\sqrt{4369}}{30}$$

$$B) \frac{\sqrt{4710}}{30}$$

$$C) \frac{\sqrt{18049}}{30}$$

$$D) \frac{\sqrt{3210}}{30}$$

$$20) \left(4, \frac{2}{5}\right), \left(-\frac{3}{5}, 0\right)$$

$$A) \frac{\sqrt{293}}{5}$$

$$B) \frac{\sqrt{105}}{5}$$

$$C) \frac{\sqrt{533}}{5}$$

$$D) \sqrt{5}$$



$$21) \left(-3\frac{1}{6}, -1\right), \left(\frac{1}{3}, 2\right)$$

$$A) \frac{\sqrt{138}}{6}$$

$$B) \frac{\sqrt{85}}{2}$$

$$C) \frac{\sqrt{26}}{2}$$

$$D) \frac{5\sqrt{13}}{6}$$

$$22) \left(-3\frac{4}{5}, -3\frac{1}{3}\right), \left(1\frac{1}{5}, \frac{1}{6}\right)$$

$$A) \frac{\sqrt{34}}{2}$$

$$B) \frac{\sqrt{149}}{2}$$

$$C) \frac{\sqrt{15109}}{30}$$

$$D) \frac{\sqrt{6}}{2}$$

$$23) \left(-3\frac{3}{5}, \frac{2}{3}\right), \left(\frac{5}{6}, -1\right)$$

$$A) \frac{\sqrt{6789}}{30}$$

$$B) \frac{\sqrt{610}}{10}$$

$$C) \frac{\sqrt{20189}}{30}$$

$$D) \frac{\sqrt{6989}}{30}$$

$$24) \left(\frac{5}{6}, 2\frac{1}{2}\right), \left(-\frac{3}{2}, 2\right)$$

$$A) \frac{\sqrt{205}}{6}$$

$$B) \frac{\sqrt{186}}{6}$$

$$C) \frac{\sqrt{102}}{6}$$

$$D) \frac{\sqrt{713}}{6}$$



## Answers to Assignment (ID: 7)

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

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

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

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



## Assignment

Find the distance between each pair of points.

1)  $\left(-1, 1\frac{3}{5}\right), \left(0, -2\frac{1}{2}\right)$

A)  $\frac{\sqrt{19}}{10}$

B)  $\frac{\sqrt{181}}{10}$

C)  $\frac{\sqrt{1781}}{10}$

D)  $\frac{\sqrt{510}}{10}$

2)  $\left(-1\frac{1}{6}, -2\frac{1}{5}\right), \left(-2\frac{1}{2}, \frac{2}{3}\right)$

A)  $\frac{\sqrt{3554}}{15}$

B)  $\frac{\sqrt{2249}}{15}$

C)  $\frac{8\sqrt{39}}{15}$

D)  $\frac{\sqrt{105}}{5}$

3)  $\left(0, \frac{3}{4}\right), \left(2\frac{1}{3}, \frac{2}{3}\right)$

A)  $\frac{\sqrt{785}}{12}$

B)  $\frac{\sqrt{1073}}{12}$

C)  $\frac{\sqrt{55}}{4}$

D)  $\frac{\sqrt{87}}{6}$

4)  $\left(-5, -3\frac{3}{4}\right), \left(3\frac{1}{2}, \frac{1}{2}\right)$

A)  $\frac{\sqrt{205}}{4}$

B)  $\frac{\sqrt{51}}{2}$

C)  $\frac{17\sqrt{5}}{4}$

D)  $\frac{\sqrt{17}}{2}$

5)  $\left(-3\frac{1}{2}, -1\right), \left(1\frac{1}{2}, -\frac{1}{3}\right)$

A)  $\frac{2\sqrt{13}}{3}$

B)  $\frac{\sqrt{51}}{3}$

C)  $\frac{\sqrt{39}}{3}$

D)  $\frac{\sqrt{229}}{3}$

6)  $\left(-\frac{5}{3}, 2\right), \left(-3\frac{1}{5}, 1\frac{1}{5}\right)$

A)  $\frac{\sqrt{21}}{3}$

B)  $\frac{\sqrt{7633}}{15}$

C)  $\frac{11\sqrt{15}}{15}$

D)  $\frac{\sqrt{673}}{15}$

7)  $\left(\frac{5}{4}, \frac{1}{2}\right), \left(-2\frac{4}{5}, -2\right)$

A)  $\frac{\sqrt{655}}{10}$

B)  $\frac{\sqrt{155}}{10}$

C)  $\frac{\sqrt{61}}{20}$

D)  $\frac{\sqrt{9061}}{20}$

8)  $(-1, 2), \left(2\frac{1}{2}, 3\frac{3}{4}\right)$

A)  $\frac{\sqrt{17}}{2}$

B)  $\frac{\sqrt{21}}{2}$

C)  $\frac{7\sqrt{5}}{4}$

D)  $\frac{\sqrt{565}}{4}$

9)  $(-2, 4), \left(1\frac{1}{2}, 1\right)$

A)  $\frac{\sqrt{101}}{2}$

B)  $\frac{\sqrt{26}}{2}$

C)  $\frac{\sqrt{85}}{2}$

D)  $\frac{3\sqrt{11}}{2}$

10)  $\left(0, \frac{1}{4}\right), \left(0, 2\frac{5}{6}\right)$

A)  $\frac{\sqrt{111}}{6}$

B)  $\frac{\sqrt{93}}{6}$

C)  $3\frac{1}{12}$

D)  $2\frac{7}{12}$



$$11) \left(-\frac{5}{4}, -1\frac{1}{2}\right), \left(\frac{5}{3}, -3\frac{1}{2}\right)$$

$$A) \frac{5\sqrt{145}}{12} \quad B) \frac{\sqrt{195}}{6}$$

$$C) \frac{\sqrt{1801}}{12} \quad D) \frac{\sqrt{177}}{6}$$

$$12) \left(-\frac{2}{3}, -2\frac{1}{4}\right), \left(0, \frac{5}{4}\right)$$

$$A) \frac{\sqrt{457}}{6} \quad B) \frac{\sqrt{13}}{3}$$

$$C) \frac{5\sqrt{6}}{6} \quad D) \frac{\sqrt{102}}{6}$$

$$13) \left(-\frac{6}{5}, \frac{3}{2}\right), \left(0, -3\frac{1}{2}\right)$$

$$A) \frac{2\sqrt{34}}{5} \quad B) \frac{\sqrt{629}}{6}$$

$$C) \frac{\sqrt{155}}{5} \quad D) \frac{\sqrt{661}}{5}$$

$$14) \left(\frac{1}{2}, 1\frac{1}{6}\right), \left(-3\frac{1}{4}, -2\right)$$

$$A) \frac{\sqrt{69}}{6} \quad B) \frac{\sqrt{3469}}{12}$$

$$C) \frac{\sqrt{1189}}{12} \quad D) \frac{\sqrt{249}}{6}$$

$$15) \left(-\frac{6}{5}, \frac{2}{3}\right), \left(\frac{2}{5}, 1\frac{1}{3}\right)$$

$$A) \frac{\sqrt{70}}{5} \quad B) 1\frac{11}{15}$$

$$C) \frac{\sqrt{510}}{15} \quad D) \frac{2\sqrt{29}}{5}$$

$$16) \left(-\frac{2}{3}, -1\right), \left(-\frac{3}{2}, -2\right)$$

$$A) \frac{\sqrt{493}}{6} \quad B) \frac{\sqrt{30}}{6}$$

$$C) \frac{\sqrt{61}}{6} \quad D) \frac{\sqrt{66}}{6}$$

$$17) \left(0, 1\frac{1}{6}\right), \left(\frac{3}{2}, 0\right)$$

$$A) \frac{\sqrt{2041}}{60} \quad B) \frac{2\sqrt{6}}{3}$$

$$C) \frac{\sqrt{130}}{6} \quad D) \frac{2\sqrt{2}}{3}$$

$$18) \left(2\frac{1}{6}, -1\right), \left(\frac{3}{2}, \frac{1}{3}\right)$$

$$A) \sqrt{2} \quad B) \frac{5\sqrt{5}}{3}$$

$$C) \frac{\sqrt{39}}{3} \quad D) \frac{2\sqrt{5}}{3}$$

$$19) \left(\frac{2}{5}, -\frac{1}{3}\right), \left(-2\frac{1}{4}, 2\frac{5}{6}\right)$$

$$A) \frac{\sqrt{61381}}{60} \quad B) \frac{\sqrt{5993}}{12}$$

$$C) \frac{\sqrt{5235}}{30} \quad D) \frac{\sqrt{3869}}{20}$$

$$20) \left(\frac{1}{2}, -2\frac{2}{3}\right), \left(1\frac{1}{2}, 3\frac{1}{2}\right)$$

$$A) \frac{\sqrt{258}}{6} \quad B) \frac{\sqrt{186}}{6}$$

$$C) \frac{\sqrt{1405}}{6} \quad D) 2\frac{1}{6}$$



$$21) \left(2\frac{5}{6}, \frac{1}{2}\right), \left(-\frac{3}{2}, -4\right)$$

$$A) \frac{\sqrt{174}}{6} \quad B) \frac{\sqrt{318}}{6}$$

$$C) \frac{\sqrt{1405}}{6} \quad D) \frac{\sqrt{505}}{6}$$

$$22) \left(-1\frac{1}{2}, \frac{3}{2}\right), \left(-1\frac{1}{6}, -1\frac{5}{6}\right)$$

$$A) \sqrt{7} \quad B) \frac{\sqrt{33}}{3}$$

$$C) \frac{\sqrt{101}}{3} \quad D) \frac{\sqrt{65}}{3}$$

$$23) \left(-2\frac{5}{6}, 0\right), (0, 1)$$

$$A) \frac{\sqrt{6389}}{12} \quad B) \frac{\sqrt{253}}{6}$$

$$C) \frac{\sqrt{138}}{6} \quad D) \frac{5\sqrt{13}}{6}$$

$$24) \left(1\frac{2}{3}, 3\frac{1}{4}\right), \left(-1\frac{1}{2}, -2\frac{1}{3}\right)$$

$$A) \frac{\sqrt{35}}{2} \quad B) \frac{5\sqrt{5}}{12}$$

$$C) \frac{\sqrt{87}}{6} \quad D) \frac{\sqrt{5933}}{12}$$



## Answers to Assignment (ID: 8)

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

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

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

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





## Assignment

Date \_\_\_\_\_ Period \_\_\_\_\_

Find the distance between each pair of points.

1)  $\left(1\frac{1}{2}, -\frac{3}{5}\right), \left(-1\frac{1}{6}, -1\right)$

A)  $\frac{\sqrt{510}}{15}$

B)  $\frac{\sqrt{601}}{15}$

C)  $\frac{\sqrt{690}}{15}$

D)  $\frac{2\sqrt{409}}{15}$

2)  $\left(2\frac{1}{2}, 1\frac{4}{5}\right), \left(-\frac{5}{4}, \frac{11}{6}\right)$

A)  $\frac{\sqrt{3405}}{30}$

B)  $\frac{\sqrt{41899}}{60}$

C)  $\frac{\sqrt{50629}}{60}$

D)  $\frac{\sqrt{53149}}{60}$

3)  $\left(-1\frac{2}{3}, \frac{3}{4}\right), \left(\frac{1}{3}, -3\frac{1}{6}\right)$

A)  $\frac{\sqrt{213}}{6}$

B)  $\frac{\sqrt{2785}}{12}$

C)  $\frac{\sqrt{1097}}{12}$

D)  $\frac{\sqrt{12781}}{30}$

4)  $\left(-1\frac{1}{3}, -3\frac{1}{4}\right), \left(-1, -\frac{1}{4}\right)$

A)  $\frac{\sqrt{82}}{3}$

B)  $\frac{\sqrt{30}}{3}$

C)  $\frac{7\sqrt{13}}{6}$

D)  $\frac{2\sqrt{6}}{3}$

5)  $\left(3, \frac{2}{3}\right), \left(-1\frac{3}{5}, -1\frac{1}{6}\right)$

A)  $\frac{\sqrt{221}}{10}$

B)  $\frac{\sqrt{22069}}{30}$

C)  $\frac{\sqrt{5790}}{30}$

D)  $\frac{\sqrt{2490}}{30}$

6)  $\left(-1\frac{1}{4}, 2\frac{1}{6}\right), \left(2\frac{5}{6}, 2\frac{1}{6}\right)$

A)  $\frac{\sqrt{3065}}{12}$

B)  $\frac{7\sqrt{3}}{6}$

C)  $\frac{\sqrt{2343}}{12}$

D)  $4\frac{1}{12}$

7)  $\left(-2\frac{1}{5}, -\frac{2}{3}\right), \left(-1\frac{3}{4}, -2\frac{1}{2}\right)$

A)  $\frac{\sqrt{20069}}{60}$

B)  $\frac{\sqrt{2055}}{30}$

C)  $\frac{\sqrt{12829}}{60}$

D)  $\frac{\sqrt{1546}}{12}$

8)  $\left(-2\frac{1}{4}, \frac{3}{5}\right), \left(2, -1\frac{1}{2}\right)$

A)  $\frac{\sqrt{299}}{20}$

B)  $\frac{\sqrt{8989}}{20}$

C)  $\frac{\sqrt{635}}{10}$

D)  $\frac{\sqrt{349}}{20}$

9)  $\left(-3\frac{4}{5}, 0\right), \left(3\frac{1}{4}, -\frac{4}{3}\right)$

A)  $\frac{\sqrt{7489}}{60}$

B)  $\frac{\sqrt{5311}}{60}$

C)  $\frac{\sqrt{185329}}{60}$

D)  $\frac{\sqrt{7545}}{30}$

10)  $\left(-\frac{1}{4}, -\frac{1}{2}\right), \left(3\frac{3}{4}, \frac{1}{5}\right)$

A)  $\frac{\sqrt{95}}{5}$

B)  $\frac{\sqrt{1649}}{10}$

C)  $\frac{\sqrt{1234}}{10}$

D)  $\frac{\sqrt{470}}{10}$



$$11) \left(\frac{9}{5}, -2\frac{5}{6}\right), \left(1\frac{1}{3}, -2\frac{4}{5}\right)$$

$$A) \frac{\sqrt{37397}}{30}$$

$$B) \frac{\sqrt{7890}}{30}$$

$$C) \frac{\sqrt{197}}{30}$$

$$D) \frac{\sqrt{2}}{2}$$

$$12) \left(\frac{6}{5}, -\frac{3}{2}\right), \left(\frac{7}{4}, 1\right)$$

$$A) \frac{\sqrt{3581}}{20}$$

$$B) \frac{\sqrt{345}}{10}$$

$$C) \frac{\sqrt{305}}{10}$$

$$D) \frac{\sqrt{2621}}{20}$$

$$13) \left(\frac{6}{5}, 1\right), \left(2\frac{1}{3}, 1\frac{2}{5}\right)$$

$$A) \frac{\sqrt{255}}{15}$$

$$B) \frac{\sqrt{345}}{15}$$

$$C) \frac{\sqrt{4105}}{15}$$

$$D) \frac{\sqrt{13}}{3}$$

$$14) (-1, 1), \left(\frac{4}{5}, -2\right)$$

$$A) \frac{\sqrt{221}}{4}$$

$$B) \frac{3\sqrt{34}}{5}$$

$$C) \frac{\sqrt{2117}}{12}$$

$$D) \frac{2\sqrt{30}}{5}$$

$$15) \left(\frac{5}{6}, \frac{7}{6}\right), \left(-\frac{1}{5}, 1\frac{3}{4}\right)$$

$$A) \frac{\sqrt{32069}}{60}$$

$$B) \frac{\sqrt{2055}}{30}$$

$$C) \frac{\sqrt{5069}}{60}$$

$$D) \frac{\sqrt{1455}}{30}$$

$$16) (0, 2), \left(\frac{1}{4}, \frac{2}{3}\right)$$

$$A) \frac{\sqrt{1015}}{12}$$

$$B) \frac{\sqrt{57}}{6}$$

$$C) \frac{\sqrt{87}}{6}$$

$$D) \frac{\sqrt{265}}{12}$$

$$17) \left(1, 1\frac{3}{4}\right), \left(2\frac{2}{3}, 2\frac{1}{5}\right)$$

$$A) \frac{\sqrt{1095}}{30}$$

$$B) \frac{\sqrt{104569}}{60}$$

$$C) \frac{\sqrt{10729}}{60}$$

$$D) \frac{\sqrt{1905}}{30}$$

$$18) \left(-\frac{2}{3}, \frac{1}{2}\right), \left(-3\frac{1}{2}, 2\frac{1}{2}\right)$$

$$A) \frac{\sqrt{174}}{6}$$

$$B) \frac{\sqrt{949}}{6}$$

$$C) \frac{\sqrt{258}}{6}$$

$$D) \frac{\sqrt{433}}{6}$$

$$19) \left(-2, 3\frac{1}{6}\right), \left(2\frac{1}{2}, -\frac{9}{5}\right)$$

$$A) \frac{\sqrt{40426}}{30}$$

$$B) \frac{\sqrt{1906}}{30}$$

$$C) \frac{\sqrt{2130}}{15}$$

$$D) \frac{\sqrt{4562}}{12}$$

$$20) \left(2, 1\frac{1}{4}\right), (-1, -2)$$

$$A) \frac{\sqrt{7}}{2}$$

$$B) 2\frac{1}{2}$$

$$C) \frac{\sqrt{7}}{4}$$

$$D) \frac{\sqrt{313}}{4}$$



$$21) \left(\frac{4}{3}, -\frac{6}{5}\right), \left(-\frac{1}{3}, -2\right)$$

$$A) \frac{\sqrt{105}}{5} \quad B) \frac{\sqrt{555}}{15}$$

$$C) \frac{\sqrt{281}}{5} \quad D) \frac{\sqrt{769}}{15}$$

$$22) \left(\frac{1}{2}, -1\frac{5}{6}\right), \left(\frac{5}{6}, 1\frac{1}{4}\right)$$

$$A) \frac{\sqrt{11}}{2} \quad B) \frac{\sqrt{123}}{6}$$

$$C) \frac{\sqrt{1385}}{12} \quad D) \frac{\sqrt{305}}{12}$$

$$23) \left(-\frac{3}{2}, 3\frac{1}{3}\right), \left(-3\frac{1}{3}, 1\frac{3}{5}\right)$$

$$A) \frac{\sqrt{5729}}{30} \quad B) \frac{\sqrt{8790}}{30}$$

$$C) \frac{\sqrt{13954}}{30} \quad D) \frac{\sqrt{3210}}{30}$$

$$24) \left(2, 1\frac{4}{5}\right), \left(-\frac{1}{2}, \frac{1}{2}\right)$$

$$A) \frac{\sqrt{794}}{10} \quad B) \frac{\sqrt{754}}{10}$$

$$C) \frac{\sqrt{95}}{5} \quad D) \frac{\sqrt{30}}{5}$$



## Answers to Assignment (ID: 9)

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

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

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

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



## Assignment

Find the distance between each pair of points.

1)  $\left(-3\frac{3}{4}, 2\right), \left(-2, -\frac{7}{4}\right)$

A)  $\frac{\sqrt{22}}{2}$       B)  $\sqrt{6}$

C)  $\frac{\sqrt{274}}{4}$       D)  $\sqrt{33}$

2)  $\left(-2\frac{3}{5}, 2\right), \left(-5\frac{2}{3}, 3\right)$

A)  $\frac{\sqrt{2985}}{15}$       B)  $\frac{\sqrt{915}}{15}$

C)  $\frac{\sqrt{21001}}{15}$       D)  $\frac{\sqrt{2341}}{15}$

3)  $\left(-2\frac{1}{3}, \frac{4}{3}\right), \left(1\frac{1}{3}, -1\frac{1}{2}\right)$

A)  $\frac{\sqrt{35}}{6}$       B)  $\frac{\sqrt{26}}{2}$

C)  $\frac{\sqrt{37}}{6}$       D)  $\frac{\sqrt{773}}{6}$

4)  $\left(3\frac{1}{4}, \frac{3}{2}\right), \left(\frac{2}{3}, \frac{1}{4}\right)$

A)  $\frac{\sqrt{1186}}{12}$       B)  $\frac{\sqrt{78}}{6}$

C)  $\frac{\sqrt{138}}{6}$       D)  $\frac{5\sqrt{106}}{12}$

5)  $\left(3\frac{2}{5}, -1\frac{2}{3}\right), \left(-3\frac{1}{2}, \frac{6}{5}\right)$

A)  $\frac{\sqrt{205}}{30}$       B)  $\frac{\sqrt{50245}}{30}$

C)  $\frac{\sqrt{187}}{30}$       D)  $\frac{\sqrt{8790}}{30}$

6)  $\left(3\frac{1}{5}, 6\right), \left(-1, -2\frac{1}{6}\right)$

A)  $\frac{\sqrt{17581}}{30}$       B)  $\frac{7\sqrt{1549}}{30}$

C)  $\frac{\sqrt{11130}}{30}$       D)  $\frac{\sqrt{3570}}{30}$

7)  $\left(3\frac{5}{6}, 3\frac{2}{3}\right), \left(-3\frac{5}{6}, 1\right)$

A)  $4\frac{2}{3}$       B)  $\frac{\sqrt{593}}{3}$

C)  $\frac{\sqrt{93}}{3}$       D)  $\sqrt{5}$

8)  $\left(2\frac{1}{6}, \frac{1}{3}\right), \left(3\frac{3}{4}, -1\right)$

A)  $\frac{\sqrt{617}}{12}$       B)  $\frac{\sqrt{237}}{6}$

C)  $\frac{\sqrt{105}}{6}$       D)  $\frac{\sqrt{5105}}{12}$

9)  $\left(1\frac{2}{5}, 0\right), \left(2\frac{2}{5}, -3\frac{1}{3}\right)$

A)  $\frac{\sqrt{39}}{3}$       B)  $\frac{\sqrt{5749}}{15}$

C)  $\frac{\sqrt{1605}}{15}$       D)  $\frac{\sqrt{109}}{3}$

10)  $\left(2\frac{4}{5}, 1\frac{1}{2}\right), \left(-3\frac{1}{6}, 6\right)$

A)  $\frac{\sqrt{221}}{4}$       B)  $\frac{\sqrt{2355}}{15}$

C)  $\frac{\sqrt{12626}}{15}$       D)  $\frac{\sqrt{50266}}{30}$



$$11) \left(\frac{1}{2}, 1\frac{1}{2}\right), \left(-\frac{5}{6}, -1\right)$$

$$A) \frac{\sqrt{138}}{6} \quad B) \frac{\sqrt{42}}{6}$$

$$C) \frac{\sqrt{13}}{6} \quad D) 2\frac{5}{6}$$

$$12) \left(1\frac{1}{2}, -\frac{3}{2}\right), \left(1\frac{3}{4}, 0\right)$$

$$A) \frac{\sqrt{205}}{4} \quad B) \frac{\sqrt{37}}{4}$$

$$C) \frac{\sqrt{7}}{2} \quad D) \frac{\sqrt{19}}{2}$$

$$13) \left(\frac{5}{6}, -2\frac{1}{2}\right), \left(-2\frac{1}{5}, 0\right)$$

$$A) \sqrt{29} \quad B) \frac{\sqrt{1245}}{15}$$

$$C) \frac{\sqrt{13906}}{30} \quad D) \frac{\sqrt{7306}}{30}$$

$$14) \left(\frac{1}{2}, \frac{1}{3}\right), \left(-\frac{3}{2}, -\frac{3}{2}\right)$$

$$A) \frac{\sqrt{85}}{6} \quad B) \frac{\sqrt{6}}{6}$$

$$C) \frac{\sqrt{265}}{6} \quad D) \frac{\sqrt{138}}{6}$$

$$15) \left(\frac{2}{3}, 3\frac{1}{2}\right), \left(\frac{3}{5}, 3\frac{5}{6}\right)$$

$$A) \frac{\sqrt{1365}}{15} \quad B) \frac{\sqrt{10}}{5}$$

$$C) \frac{\sqrt{26}}{15} \quad D) \frac{\sqrt{12461}}{15}$$

$$16) \left(\frac{2}{3}, 0\right), \left(\frac{1}{2}, -1\frac{2}{3}\right)$$

$$A) \frac{\sqrt{101}}{6} \quad B) \frac{\sqrt{149}}{6}$$

$$C) \frac{\sqrt{102}}{6} \quad D) \frac{\sqrt{66}}{6}$$

$$17) \left(\frac{7}{4}, \frac{7}{6}\right), \left(1\frac{1}{4}, 2\frac{5}{6}\right)$$

$$A) \frac{\sqrt{109}}{6} \quad B) \frac{\sqrt{78}}{6}$$

$$C) \sqrt{7} \quad D) 5$$

$$18) \left(-2, -\frac{1}{3}\right), \left(3\frac{1}{6}, -4\right)$$

$$A) \frac{17\sqrt{5}}{6} \quad B) \frac{\sqrt{318}}{6}$$

$$C) \frac{\sqrt{493}}{3} \quad D) \frac{7\sqrt{145}}{12}$$

$$19) \left(2, -6\frac{3}{5}\right), \left(-2\frac{5}{6}, -1\frac{1}{3}\right)$$

$$A) \frac{\sqrt{57269}}{30} \quad B) \frac{\sqrt{56019}}{30}$$

$$C) \frac{\sqrt{45989}}{30} \quad D) \frac{\sqrt{1010}}{10}$$

$$20) \left(\frac{5}{3}, -\frac{7}{6}\right), \left(2, \frac{1}{4}\right)$$

$$A) \frac{11\sqrt{17}}{12} \quad B) \frac{\sqrt{165}}{6}$$

$$C) \frac{\sqrt{305}}{12} \quad D) \frac{\sqrt{7}}{2}$$



21)  $(-1, -1), \left(2\frac{2}{3}, \frac{1}{3}\right)$

A)  $\frac{\sqrt{21}}{3}$       B)  $\frac{\sqrt{29}}{3}$

C)  $\frac{\sqrt{137}}{3}$       D)  $\sqrt{5}$

22)  $\left(\frac{3}{2}, -1\frac{2}{3}\right), \left(-2\frac{1}{2}, -1\frac{2}{3}\right)$

A)  $\frac{\sqrt{109}}{3}$       B) 4

C) 2      D)  $\frac{\sqrt{91}}{3}$

23)  $\left(-6, -3\frac{3}{4}\right), \left(-\frac{3}{2}, -\frac{11}{6}\right)$

A)  $\frac{\sqrt{231}}{6}$       B)  $\frac{\sqrt{12589}}{12}$

C)  $\frac{\sqrt{3445}}{12}$       D)  $\frac{\sqrt{93}}{6}$

24)  $\left(\frac{9}{5}, -3\frac{1}{3}\right), \left(3\frac{1}{2}, -\frac{1}{5}\right)$

A)  $\frac{\sqrt{174}}{6}$       B)  $\frac{53\sqrt{13}}{30}$

C)  $\frac{\sqrt{11437}}{30}$       D)  $\frac{\sqrt{318}}{6}$



## Answers to Assignment (ID: 10)

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

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

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

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

