



Distance Formula

Name _____

Score _____

DF:05

Example : Find the distance between the points (1, 4) and (6, 9).

$$\begin{aligned}\text{Distance} &= \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2} && x_1 = 1 ; x_2 = 6 ; y_1 = 4 ; y_2 = 9 \\ &= \sqrt{(6 - 1)^2 + (9 - 4)^2} \\ &= \sqrt{25 + 25} = \sqrt{50} \approx \mathbf{7.07 \text{ units}}\end{aligned}$$

Find the distance between each pair of points. Round the answer to the nearest hundredth.

1) (3, 3) and (-2, -5)

2) (-1, -4) and (-10, -11)

3) (1, -1) and (-8, -1)

4) (4, 3) and (0, 0)

5) (9, 12) and (6, 7)

6) (-1, 8) and (0, -2)

7) (-5, -6) and (-2, -1)

8) (7, 7) and (9, 10)



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Answer key

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Find the distance between each pair of points. Round the answer to the nearest hundredth.

1) (3, 3) and (-2, -5)

9.43 units

2) (-1, -4) and (-10, -11)

11.4 units

3) (1, -1) and (-8, -1)

9 units

4) (4, 3) and (0, 0)

5 units

5) (9, 12) and (6, 7)

5.83 units

6) (-1, 8) and (0, -2)

10.05 units

7) (-5, -6) and (-2, -1)

5.83 units

8) (7, 7) and (9, 10)

3.61 units