

Distance Formula

Name _____

Score ____

DF:06

Example: Find the distance between the points (-3, -4) and (-1, -2).

Distance =
$$\sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$$
 $x_1 = -3$; $x_2 = -1$; $y_1 = -4$; $y_2 = -2$
= $\sqrt{(-1 + 3)^2 + (-2 + 4)^2}$
= $\sqrt{4 + 4}$ = $\sqrt{8}$ \approx 2.83 units

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

3)
$$(0,0)$$
 and $(1,-3)$

4)
$$(-1, -2)$$
 and $(3, 5)$

7) (4, 1) and (1, 9)

8)
$$(-2, -2)$$
 and $(-8, -1)$

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Answer key

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= $\sqrt{4 + 4}$ = $\sqrt{8}$ \approx 2.83 units

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

5.39 units

3)
$$(0,0)$$
 and $(1,-3)$

4)
$$(-1, -2)$$
 and $(3, 5)$

8.06 units

15 units

5 units

8)
$$(-2, -2)$$
 and $(-8, -1)$

8.54 units

6.08 units