

Find the distance between each pair of points. Round your answer to the nearest tenth, if necessary.

7) (7, 6), (0, 2)

$$d = \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$$

$$d = \sqrt{(7 - 0)^2 + (6 - 2)^2}$$

$$d = \sqrt{49 + 16}$$

$$d = \sqrt{65}$$

8) (4, 2), (-6, -6)

$$d = \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$$

$$d = \sqrt{(4 - (-6))^2 + (2 - (-6))^2}$$

$$d = \sqrt{(10)^2 + (8)^2}$$

$$d = \sqrt{100 + 64} = \sqrt{164}$$

9) (-6, 1), (-3, 1)

$$d = \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$$

$$d = \sqrt{(-6 - (-3))^2 + (1 - 1)^2}$$

$$d = \sqrt{(-3)^2 + (0)^2}$$

$$d = \sqrt{9} = 3$$

10) (-3, 6), (2, 1)

$$d = \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$$

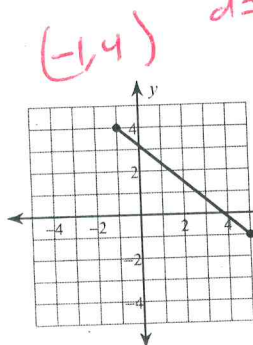
$$d = \sqrt{(-3 - 2)^2 + (6 - 1)^2}$$

$$d = \sqrt{(-5)^2 + (5)^2}$$

$$d = \sqrt{25 + 25}$$

$$d = \sqrt{50}$$

11)



$$d = \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$$

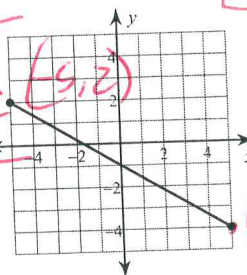
$$d = \sqrt{(-1 - 5)^2 + (4 - (-1))^2}$$

$$d = \sqrt{(-6)^2 + (5)^2}$$

$$d = \sqrt{36 + 25}$$

$$d = \sqrt{61}$$

12)



$$d = \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$$

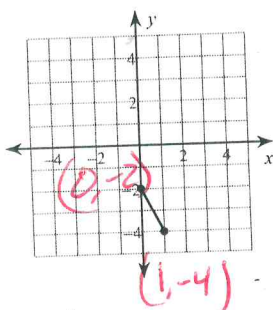
$$d = \sqrt{(-5 - 5)^2 + (2 - (-4))^2}$$

$$d = \sqrt{(-10)^2 + (6)^2}$$

$$d = \sqrt{100 + 36}$$

$$d = \sqrt{136}$$

13)



$$d = \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$$

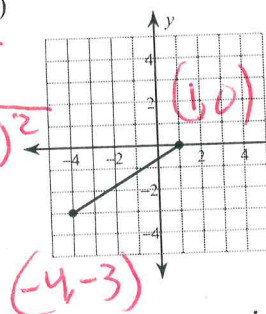
$$d = \sqrt{(0 - 1)^2 + (-2 - (-4))^2}$$

$$d = \sqrt{(-1)^2 + (2)^2}$$

$$d = \sqrt{1 + 4}$$

$$d = \sqrt{5}$$

14)



$$d = \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$$

$$d = \sqrt{(1 - (-4))^2 + (0 - (-3))^2}$$

$$d = \sqrt{(5)^2 + (3)^2}$$

$$d = \sqrt{25 + 9}$$

$$d = \sqrt{34}$$