

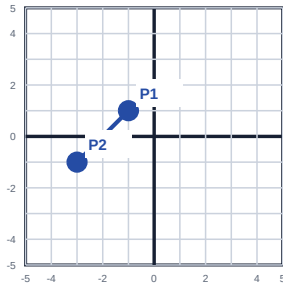
Math Sheet

Name _____ Score _____ / 4 Teacher _____ Date _____

Distance Between Points

Find the distance between each pair of points. Distances are always nonnegative.

1.

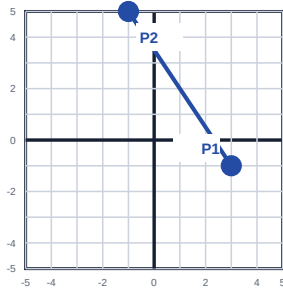


P1 (-1, 1)

P2 (-3, -1)

Work:

2.

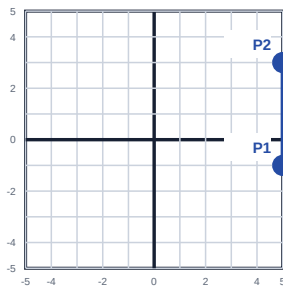


P1 (3, -1)

P2 (-1, 5)

Work:

3.

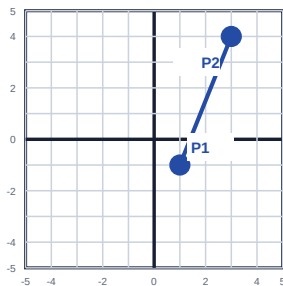


P1 (5, -1)

P2 (5, 3)

Work:

4.



P1 (1, -1)

P2 (3, 4)

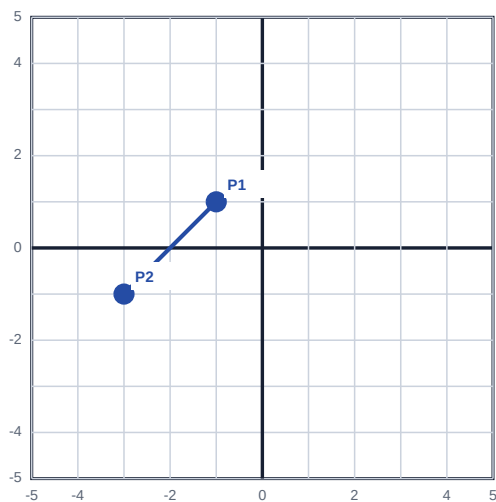
Work:

Distance Between Points

Answer key

Find the distance between each pair of points. Distances are always nonnegative.

1.

**P1 (-1, 1)****P2 (-3, -1)**

$$dx = (-3) - (-1) = -2$$

$$dy = (-1) - 1 = -2$$

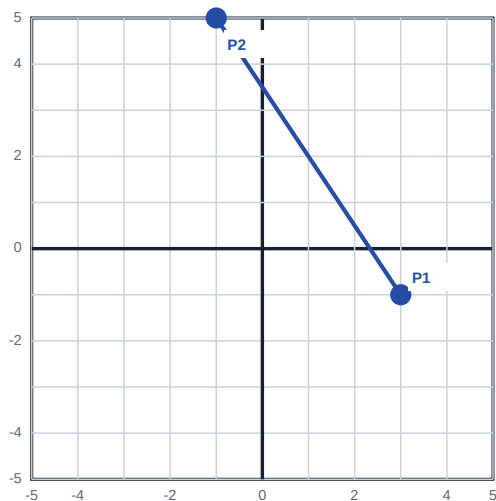
$$d^2 = (-2)^2 + (-2)^2$$

$$d^2 = 4 + 4 = 8$$

$$d = \sqrt{8} \sim 2.8284$$

horizontal distance: 2; vertical distance: 2

2.

**P1 (3, -1)****P2 (-1, 5)**

$$dx = (-1) - 3 = -4$$

$$dy = 5 - (-1) = 6$$

$$d^2 = (-4)^2 + 6^2$$

$$d^2 = 16 + 36 = 52$$

$$d = \sqrt{52} \sim 7.2111$$

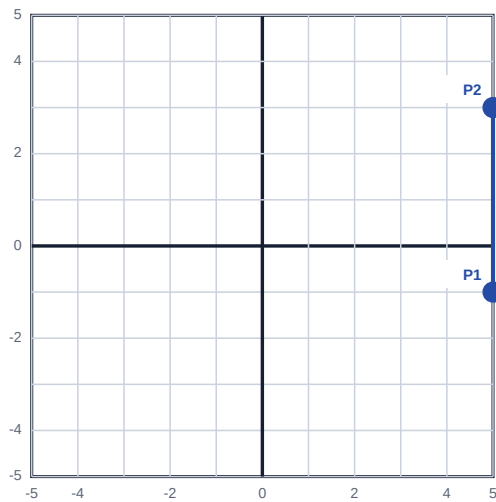
horizontal distance: 4; vertical distance: 6

Distance Between Points

Answer key

Find the distance between each pair of points. Distances are always nonnegative.

3.

**P1 (5, -1)****P2 (5, 3)**

$$dx = 5 - 5 = 0$$

$$dy = 3 - (-1) = 4$$

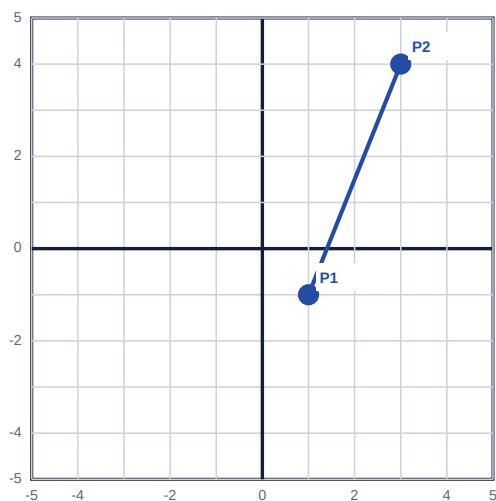
$$d^2 = 0^2 + 4^2$$

$$d^2 = 0 + 16 = 16$$

$$d = \sqrt{16} = 4$$

horizontal distance: 0; vertical distance: 4

4.

**P1 (1, -1)****P2 (3, 4)**

$$dx = 3 - 1 = 2$$

$$dy = 4 - (-1) = 5$$

$$d^2 = 2^2 + 5^2$$

$$d^2 = 4 + 25 = 29$$

$$d = \sqrt{29} \sim 5.3852$$

horizontal distance: 2; vertical distance: 5