

Distance Formula

L151

Example: Find the distance between the points (5, -1) and (3, 7).

$$\begin{aligned}\text{Distance} &= \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2} \\ &= \sqrt{(3 - 5)^2 + (7 - (-1))^2} \\ &= \sqrt{(-2)^2 + (8)^2} = \sqrt{4 + 64} = \sqrt{68} \approx 8.25 \text{ units}\end{aligned}$$

Find the distance between the points. Round the answer to two decimal places.

1) (1, 3), (5, 7)

$$\sqrt{32} \approx 5.66 \text{ units}$$

2) (-8, -9), (-4, -10)

$$\sqrt{17} \approx 4.12 \text{ units}$$

3) (10, 6), (1, -4)

$$\sqrt{181} \approx 13.45 \text{ units}$$

4) (3, 2), (8, 2)

$$5 \text{ units}$$

5) (9, -3), (-1, 8)

$$\sqrt{221} \approx 14.87 \text{ units}$$

6) (10, 0), (0, 4)

$$\sqrt{116} \approx 10.77 \text{ units}$$

7) (-7, -2), (6, 9)

$$\sqrt{290} \approx 17.03 \text{ units}$$

8) (-6, 5), (8, -3)

$$\sqrt{260} \approx 16.12 \text{ units}$$

9) (-5, -6), (-9, -4)

$$\sqrt{20} \approx 4.47 \text{ units}$$

10) (2, 0), (-7, 1)

$$\sqrt{82} \approx 9.06 \text{ units}$$

Topic Distance Formula Worksheet Answer

Mr. Rohit Manglik

A red circular graphic with a gradient, appearing as a partial circle or a thick arc, located to the right of the author's name.

Topic Distance Formula Worksheet Answer:

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