

Distance Formula

L2S5

Example: Find the distance between the points $(-6, 7)$ and $(2, -6)$.

$$\begin{aligned} \text{Distance} &= \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2} \\ &= \sqrt{(2 + 6)^2 + (-6 - 7)^2} \\ &= \sqrt{(8)^2 + (-13)^2} = \sqrt{64 + 169} = \sqrt{233} \approx \mathbf{15.26 \text{ units}} \end{aligned}$$

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

1) $(10, 4), \left(\frac{1}{8}, 6\right)$

3) $(4, 3), (-5, 5)$

5) $(5, -7), \left(-\frac{3}{8}, 6\right)$

7) $\left(-1, \frac{3}{7}\right), (7, 2)$

9) $(-2, 3), (1, -1)$

10) $(-3, -1), \left(0, \frac{6}{7}\right)$

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