Distance Formula

L2S4

Example: Find the distance between the points $(\frac{2}{3}, 4)$ and (4, -6).

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

= $\sqrt{(4 - \frac{2}{3})^2 + (-6 - 4)^2}$
= $\sqrt{(\frac{10}{3})^2 + (-10)^2} = \sqrt{\frac{100}{9} + 100} = \sqrt{111.11} \approx 10.54 \text{ units}$

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

1) (0, -7), (4, 2)

PREVIEW

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

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5) $(8, -10), (-4, \frac{3}{5})$

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- 7) (-3, 7), (-1, 9)
- 9) $(10, -1), (3, -\frac{4}{7})$

10) (7, 3), (2, 3)