Distance Formula

L2S3

Example: Find the distance between the points (-1, 8) and $(\frac{3}{7}, 9)$.

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

= $\sqrt{(\frac{3}{7} + 1)^2 + (9 - 8)^2}$
= $\sqrt{(\frac{10}{7})^2 + (1)^2}$ = $\sqrt{\frac{100}{49} + 1}$ = $\sqrt{3.04}$ ≈ 1.74 units

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

1) $(10, 9), (0, \frac{5}{8})$

PREVIEW

3) (3, -6), (5, 4)

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5) $\left(\frac{1}{9}, 7\right)$, (2, 5)

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7) (-4, 8), (6, 1)

.3)

))

10)
$$(9, 4), (6, \frac{7}{8})$$