Distance Formula

L2S1

Example: Find the distance between the points $(3, \frac{1}{4})$ and (-2, 1).

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

= $\sqrt{(-2 - 3)^2 + (1 - \frac{1}{4})^2}$
= $\sqrt{(-5)^2 + (\frac{3}{4})^2}$ = $\sqrt{25 + \frac{9}{16}}$ = $\sqrt{25.56} \approx 5.06$ units

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

1) $\left(-\frac{1}{2}, 3\right)$, (6, 9)

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PREVIEW

3) (1, 5), (7, –3) **Gair**

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5) $\left(5, \frac{2}{3}\right)$, (8, 4)

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9) $(6, -5), \left(-\frac{5}{6}, 10\right)$

(-9, 1), (10, 7)

7)

10) (3, 3), (-7, 0)