

Distance Formula

Name _____

Score _____

DF:04



Distance Formula

Answer key

Name _____

Score _____

DF:04

Example : Find the distance between the points (-3, 2) and (5, -1).
Distance =
$$\sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$$
 $x_1 = -3$; $x_2 = 5$; $y_1 = 2$; $y_2 = -1$
 $= \sqrt{(5 + 3)^2 + (-1 - 2)^2}$
 $= \sqrt{64 + 9} = \sqrt{73} \approx 8.54$ units
Find the distance between each pair of points. Round the answer to the nearest hundredth.
1) (-2, -5) and (-3, -1) 2) (0, -8) and (-6, 0)
4.12 units 10 units
3) (7, 4) and (1, 9) 4) (-3, 2) and (11, -7)
7.81 units 16.64 units
5) (-4, -3) and (8, -8) 6) (6, 9) and (6, 1)
13 units 8 units
7) (1, 2) and (-7, 0) 8) (-10, -8) and (-4, -5)
8.25 units 6.71 units

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