

Distance and Midpoint Formula Practice Problems

1. Write out the distance formula in the space below.

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

2. Use the distance formula to determine the distance between (5, 12) and (-8, 4). Show your work.

$$d = \sqrt{(-8 - 5)^2 + (4 - 12)^2}$$

$$d = \sqrt{(-13)^2 + (-8)^2} = \sqrt{169 + 64} = \boxed{\sqrt{233}}$$

3. Use the distance formula to determine the distance between (-4, 1) and (3, -9). Show your work.

$$d = \sqrt{(3 - -4)^2 + (-9 - 1)^2}$$

$$d = \sqrt{(7)^2 + (-10)^2} = \sqrt{49 + 100} = \boxed{\sqrt{149}}$$

4. Write out the midpoint formula in the space below.

$$M = \frac{x_2 + x_1}{2}, \frac{y_1 + y_2}{2}$$

5. Determine the midpoint of \overline{AB} . A (-6, 8) and B (5, 4). Show your work.

$$M = \frac{-6 + 5}{2}, \frac{8 + 4}{2}$$

$$M = \frac{-1}{2}, \frac{12}{2}$$

$$\boxed{M = (-.5, 6)}$$

6. Points R (6, 4) and S (-4, -2) are on a coordinate grid.

- a. Determine the value of RS (distance between the points)

$$d = \sqrt{(-4 - 6)^2 + (-2 - 4)^2} = \sqrt{(-10)^2 + (-6)^2} = \sqrt{100 + 36} = \boxed{\sqrt{136}}$$

- b. Determine the midpoint of \overline{RS} .

$$M = \frac{6 + -4}{2}, \frac{4 + -2}{2} = \frac{2}{2}, \frac{2}{2} \quad \boxed{M = 1, 1}$$

- c. If point S is the midpoint of a larger segment, \overline{RT} , use the midpoint formula to determine the coordinates of point T. Show your calculations. A sketch may help in this problem.

R (6, 4) $\boxed{T = -14, -8}$

M (-4, -2)

T ??

Distance Formula Multiple Choice Questions

Arshad Iqbal



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