

Warm Up

Find the midpoint of each segment listed below with the following endpoints:

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

2) (2, -6) and (5, 6)

3) (-4, 4) and (5, -2)

4) (-1, 10) and (-5, -3)

5) (-5, -2) and (8, 2)

Remember the midpoint formula!!!

$$\text{midpoint} = \left(\frac{x_1 + x_2}{2}, \frac{y_1 + y_2}{2} \right)$$

"Exploring Parallel and Perpendicular Lines"

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Practice Problems

- 1) Write the equation of the line passing through (1, 3) that is parallel to the line whose equation is $y = 2x - 3$.

- 2) Write the equation of the line passing through (-2, 4) that is parallel to the line whose equation is $y = \frac{1}{2}x - 3$.

3) Write the equation of the line passing through (5, -3) that is perpendicular to the line whose equation is $y + 10x = 3$.

4) Write the equation of the line passing through (-6, -3) that is perpendicular to the line whose equation is $6x - y = 3$.

Homework

p. 202 #2 - 4, 7, 8, 13

p. 615 #5, 6cde, 8g, 10, 14-16

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