

Midpoint Formula

Name _____

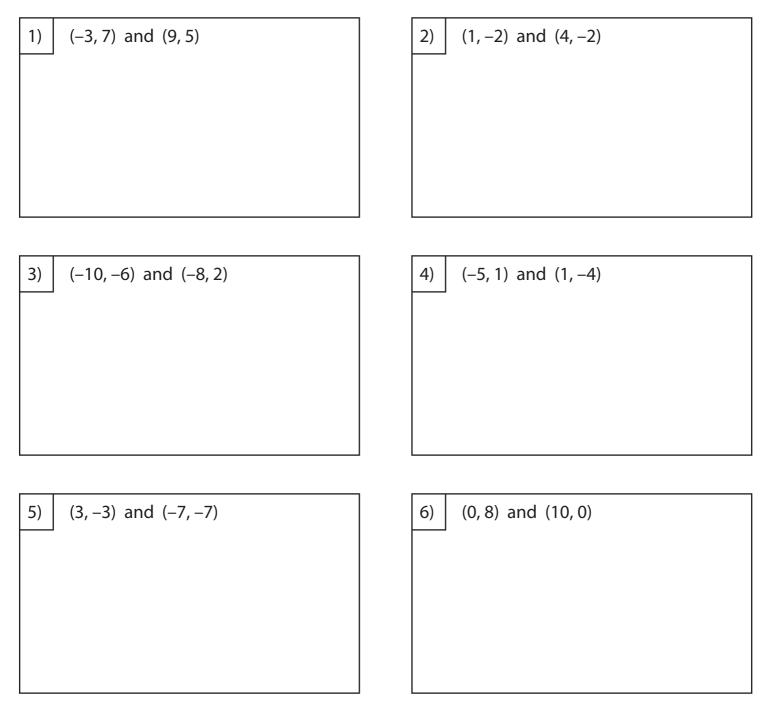
Score

MP:10

Example : Find the midpoint of a line segment with the endpoints (7, -8) and (-3, 4).

Midpoint =
$$\left(\frac{\mathbf{x_1 + x_2}}{2}, \frac{\mathbf{y_1 + y_2}}{2}\right)$$
 $x_1 = 7$; $x_2 = -3$; $y_1 = -8$; $y_2 = 4$
= $\left(\frac{7 - 3}{2}, \frac{-8 + 4}{2}\right)$
= $(2, -2)$

Find the midpoint of the line segment from the given endpoints.





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Answer key

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