

Name : _____

Midpoint Formula

ES4

Example: Find the midpoint of the line segment with the endpoints (4, 1) and (2, -5).

$$\begin{aligned}\text{Midpoint} &= \left(\frac{x_1 + x_2}{2}, \frac{y_1 + y_2}{2} \right) = \left(\frac{4 + 2}{2}, \frac{1 - 5}{2} \right) \\ &= (3, -2)\end{aligned}$$

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

1) (-4, 8), (2, 4)

3) (-3, -5), (4, 6)

5) (8, -8), (6, -6)

7) (5, 10), (-7, -10)

9) (1, -2), (-9, 10)

10) (9, 4), (7, 0)

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Answer key

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

1) (-4, 8), (2, 4)

(-1, 6)

3) (-3, -5), (4, 6)

$\left(\frac{1}{2}, \frac{1}{2}\right)$ or (0.5, 0.5)

5) (8, -8), (6, -6)

(7, -7)

7) (5, 10), (-7, -10)

(-1, 0)

9) (1, -2), (-9, 10)

(-4, 4)

10) (9, 4), (7, 0)

(8, 2)

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