

Midpoint Formula

ES2

Example: Find the midpoint of the line segment with the endpoints (2, -10) and (8, 3).

$$\begin{aligned} \text{Midpoint} &= \left(\frac{x_1 + x_2}{2}, \frac{y_1 + y_2}{2} \right) = \left(\frac{2 + 8}{2}, \frac{-10 + 3}{2} \right) \\ &= \left(5, -\frac{7}{2} \right) \text{ or } (5, -3.5) \end{aligned}$$

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

1) (-1, -2), (-6, -4)

3) (-5, 1), (7, 9)

5) (-10, -6), (-4, -)

7) (4, 4), (6, 6)

9) (-10, -5), (-8, 7)

10) (1, 8), (5, -4)

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

1) (-1, -2), (-6, -4)

$\left(-\frac{7}{2}, -3\right)$ or $(-3.5, -3)$

3) (-5, 1), (7, 9)

(1, 5)

5) (-10, -6), (-4, -2)

$(-7, -4)$

7) (4, 4), (6, 6)

(5, 5)

$(-2, 5)$

9) (-10, -5), (-8, 7)

$(-9, 1)$

10) (1, 8), (5, -4)

$(3, 2)$

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