

Midpoint Formula

ES3

Example : Find the midpoint of the line segment with the endpoints (7, 8) and (5, -2).

$$\begin{aligned} \text{Midpoint} &= \left(\frac{x_1 + x_2}{2}, \frac{y_1 + y_2}{2} \right) = \left(\frac{7 + 5}{2}, \frac{8 - 2}{2} \right) \\ &= (6, 3) \end{aligned}$$

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

1) (10, -5), (12, 3)

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

5) (5, 7), (0, 2)

7) (8, -4), (-2, -6)

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

10) (1, -2), (-5, -1)

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