

## Midpoint Formula

ES3

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

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

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

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

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

(11, -1)

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

(-4, -8)

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

$\left(\frac{5}{2}, \frac{9}{2}\right)$  or (2.5, 4.5)

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

(3, -5)

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

(2, -1)

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

$\left(-2, -\frac{3}{2}\right)$  or  $(-2, -1.5)$

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