

## Midpoint Formula

MS1

Example: Find the midpoint of the line segment with the endpoints  $(\frac{1}{2}, 5)$  and  $(-1, 3)$ .

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

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

1)  $(7, 1), (2, -9)$

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3)  $(-8, 10), (\frac{2}{5}, -4)$

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5)  $(-1, 2), (-5, 0)$

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7)  $(-9, -1.6), (-7, 4)$

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9)  $(-1, -6), (\frac{5}{6}, -4)$

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10)  $(2.8, -3), (0, 7)$

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