

## Midpoint Formula

Sheet 1

Example : Find the other endpoint of the line segment with the endpoint (3, 2) and the midpoint (5, -1).

$$\text{Midpoint} = \left( \frac{x_1 + x_2}{2}, \frac{y_1 + y_2}{2} \right) \Rightarrow (5, -1) = \left( \frac{3 + x_2}{2}, \frac{2 + y_2}{2} \right)$$

$$\Rightarrow 5 = \frac{3 + x_2}{2}, -1 = \frac{2 + y_2}{2} \Rightarrow 10 = 3 + x_2, -2 = 2 + y_2$$

$$(7, -4) = (x_2, y_2)$$

Find the other endpoint:

1) Endpoint : (-6, -9)

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3) Endpoint : (1, 3), r

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5) Endpoint : (0, -11)

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7) Endpoint : (7, 10), midpoint : (0, 6)

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t and midpoint.

7, 8), midpoint : (0, 0)

-4), midpoint : (5, -1)

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-8), midpoint : (1, -6)

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8) Endpoint : (-2, 12), midpoint : (-4, 11)

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