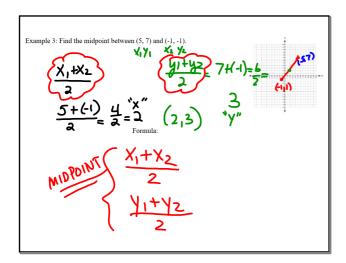


Midpoint of a Line

Example 1: Find the midpoint between (-7, 6) and (-1, 6). $\frac{6}{2} = 3 \qquad (-4, 6)$ Example 2: Find the midpoint between (2, 3) and (2, -7). $\frac{10}{2} = 5 \qquad (2, -2)$ $\frac{6}{2} = 3$

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1) What is the midpoint of a line segment whose endpoints are
$$(3, -4)$$
 and $(5, -1)$?

$$\frac{x_1 + x_2}{2} = \frac{3+5}{2} = \frac{3}{2}$$

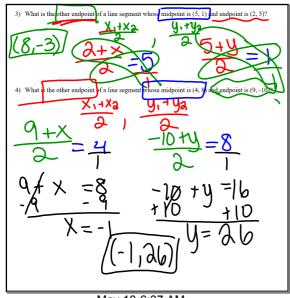
$$\frac{y_1 + y_2}{2} = \frac{-4+-1}{2} = \frac{-5}{2} = \frac{2\cdot 5}{2}$$
2) What is the midpoint of line segment whose endpoints are $(0, -1)$ and $(-7, -3)$?
$$\frac{x_1 + x_2}{2} = \frac{-1+-3}{2} = \frac{-3}{2} = -3.5$$

$$\frac{y_1 + y_2}{2} = \frac{-1+-3}{2} = -3.5$$

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5) What is the midpoint of a line segment whose endpoints are (-4, 4) and (-2, 2)?



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6) What is the midpoint of a line segment whose endpoints are (-1, 1) and (5, -5)?

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7) What is the other endpoint of a line segment whose midpoint is (-9, -10) and endpoint is (-1, 9)?	l .	9) What is the other endpoint of a line segment whose midpoint is (-10, -2) and endpoint is (5, 2)?
8) What is the midpoint of a line segment whose endpoints are (2, -1) and (-6, 0)?		10) What is the other endpoint of a line segment whose midpoint is (4, 8) and endpoint is (-6, 4)?

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