(Midpoint Formula)

Easy: S1

Example: Find the midpoint of the line segment with the endpoints (4, 1) and (2, -5).

Midpoint =
$$\left(\frac{x_1 + x_2}{2}, \frac{y_1 + y_2}{2}\right) = \left(\frac{4 + 2}{2}, \frac{1 - 5}{2}\right)$$

= $(3, -2)$

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

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$$(4,-1), (-5,9)$$

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$$\left(-1, -\frac{5}{2}\right)$$
 or $(-1, -2.5)$

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

$$\left(-\frac{9}{2}, 8\right)$$
 or $(-4.5, 8)$

8)
$$(4,-1), (-5,9)$$

$$\left(-\frac{1}{2}, 4\right)$$
 or $(-0.5, 4)$