

Midpoint Formula

MS2

Example: Find the midpoint of the line segment with the endpoints (6, 4) and (2, -0.5).

$$\begin{aligned} \text{Midpoint} &= \left(\frac{x_1 + x_2}{2}, \frac{y_1 + y_2}{2} \right) = \left(\frac{6 + 2}{2}, \frac{4 - 0.5}{2} \right) \\ &= (4, 1.7) \end{aligned}$$

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

1) $\left(-5, -\frac{4}{5}\right), (3, 4)$

10, 11)

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3) $(-10, -9), (-8.2,$

5) $(-6, 2), (11, -4)$

7) $(3.2, -1), (-7, -9)$

9) $(9, 1), (1, 7)$

10) $(1, 5) \left(\frac{3}{4}, 5\right)$