



Midpoint Formula

Name _____

Score _____

MP:11

Example : Find the midpoint of a line segment with the endpoints (5, 3) and (7, 11).

$$\begin{aligned}\text{Midpoint} &= \left(\frac{x_1 + x_2}{2}, \frac{y_1 + y_2}{2} \right) \quad x_1 = 5 ; x_2 = 7 ; y_1 = 3 ; y_2 = 11 \\ &= \left(\frac{5 + 7}{2}, \frac{3 + 11}{2} \right) \\ &= (6, 7)\end{aligned}$$

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

1) (-2, -1) and (-5, -1)

2) (-9, 6) and (3, -12)

3) (0, 7) and (8, 9)

4) (1, -3) and (5, 5)

5) (-5, -4) and (-7, -10)

6) (-7, -5) and (8, 6)



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Answer key

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$$\begin{aligned}\text{Midpoint} &= \left(\frac{x_1 + x_2}{2}, \frac{y_1 + y_2}{2} \right) \quad x_1 = 5 ; x_2 = 7 ; y_1 = 3 ; y_2 = 11 \\ &= \left(\frac{5 + 7}{2}, \frac{3 + 11}{2} \right) \\ &= (6, 7)\end{aligned}$$

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

1) (-2, -1) and (-5, -1)

$$\left(-\frac{7}{2}, -1 \right)$$

2) (-9, 6) and (3, -12)

$$(-3, -3)$$

3) (0, 7) and (8, 9)

$$(4, 8)$$

4) (1, -3) and (5, 5)

$$(3, 1)$$

5) (-5, -4) and (-7, -10)

$$(-6, -7)$$

6) (-7, -5) and (8, 6)

$$\left(\frac{1}{2}, \frac{1}{2} \right)$$