

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

$(-1, \frac{8}{5})$ or $(-1, 1.6)$

$(10, 11)$

(2.9)

3) $(-10, -9), (-8.2, -10.1)$

$(-9.1, -9.5)$

$(3.5, 0.6)$

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

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

(1.7)

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

$(-1.9, -5)$

$(-2, 3)$

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

$(5, 4)$

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

$(\frac{7}{8}, 5)$ or $(0.9, 5)$

PREVIEW

Gain complete access to the largest collection of worksheets in all subjects!

Members, please log in to download this worksheet.

Not a member? Please sign up to gain complete access.

www.mathworksheets4kids.com