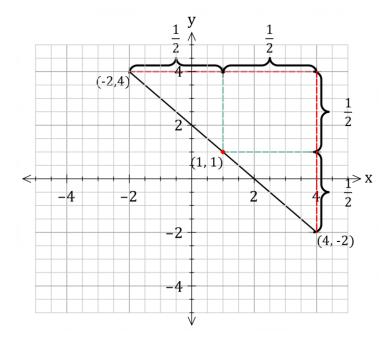
Midpoint

Find the midpoint of the line segment between the points (-2, 4) and (4, -2).



As you can see, the midpoint is halfway between the \boldsymbol{x} and \boldsymbol{y} co-ordinates.

To generalise, the midpoint is

$$\left(\frac{x_1+x_2}{2}, \frac{y_1+y_2}{2}\right)$$

Example

Find the midpoint between the points A(-3, -1) and B(1, 5)

$$\left(\frac{x_1 + x_2}{2}, \frac{y_1 + y_2}{2}\right)$$

$$= \left(\frac{-3 + 1}{2}, \frac{-1 + 5}{2}\right)$$

$$= \left(-\frac{2}{2}, \frac{4}{2}\right)$$

$$= (-1, 2)$$