**What is the Midpoint Formula?**

Some coordinate geometry questions may require you to find the [midpoint](https://www.onlinemathlearning.com/basic-geometry.html#midpoint) of line segments in the coordinate plane. To find a point that is halfway between two given points, get the average of the x-values and the average of the y-values.

The midpoint between the two points (x1 ; y1) and (x2 ; y2) is 

For example: The midpoint of the points A(1,4) and B(5,6) is

$$\left(\frac{1+5}{2};\frac{4+6}{2}\right)=\left(3;5\right)$$

**EXERCISE 7**

Find the midpoints between the following points:

1. $Q(3;5)$ and $R(6;1)$
2. $M(-7;-5)$ and $N(3;-9)$