

22nd Dec



Corbettmaths

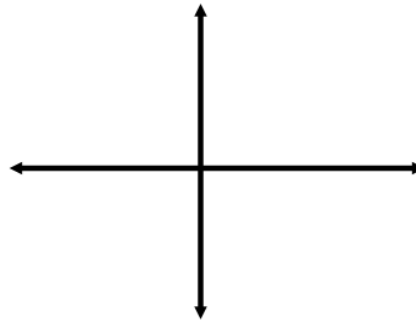
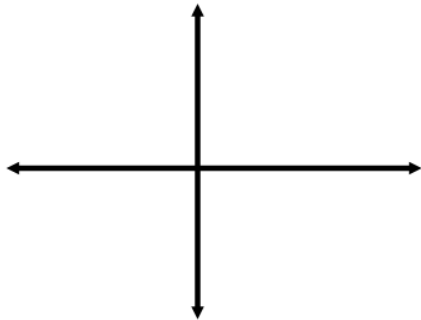
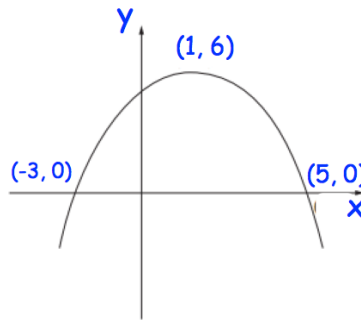
Express  $(1 + 3\sqrt{2})^2$  in the form  $a + b\sqrt{2}$

Shown is the graph of  $y = f(x)$

Sketch

a)  $y = f(x) + 2$

b)  $y = f(x + 2)$



The first three terms in an arithmetic progression are:

$$x + 8 \quad 4x \quad 3x + 12$$

Find, as a value, the sum of the first ten terms.

Find in exact form the coordinates of the points where the curve  $y = x^2 - 8x + 1$  crosses the x-axis