

**12th June**

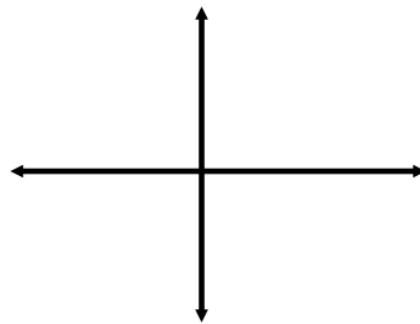
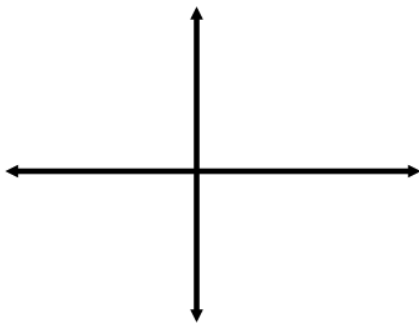
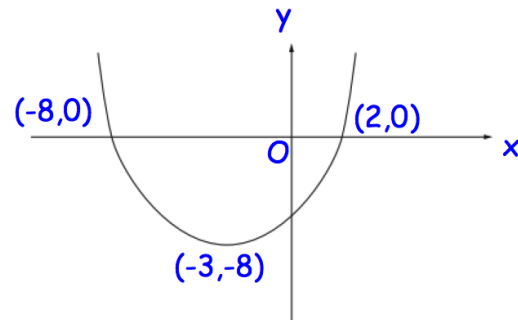
Corbettmaths

Find where the line  $7y = 5x + 8$  meets the x-axis.

Express  $4x^2 + 12x + 13$  in the form  $a(x + b)^2 + c$

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

- (a) Sketch  $f(\frac{1}{2}x)$   
 (b) Sketch  $f(x) + 8$



The curve with equation  $y = f(x)$  passes through the point  $(1, 5)$   
 Given

$$f'(x) = 2 + \frac{6x^2 + 4}{\sqrt{x}}$$

Find  $f(x)$