

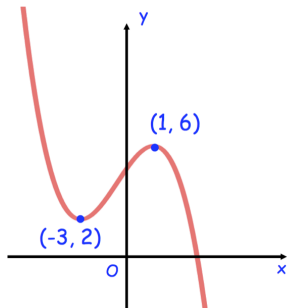
**19th February**

Corbettmaths

Factorise  $4x^2 - 4x - 3$ 

Rationalise and simplify

$$\frac{\sqrt{6} - 1}{8 - 3\sqrt{6}}$$

Shown below is the graph of  $y = f(x)$ The point  $(-3, 2)$  is a minimum point and the point  $(1, 6)$  is a maximum point.Write down the range of values of  $x$  for which  $f(x)$  is an increasing function.

$$f(x) = x^2 - 3x$$

Solve  $f(2x) - f(x - 1) = 4$

Give your answers to 2 decimal places