

**26th May**

Corbettmaths

Factorise  $7y^2 - 19y - 6$ 

Solve the simultaneous equations

$$2x - y = 7$$

$$xy = 15$$

The point P (4, 8) lies on the curve C with equation  $y = f(x)$ ,  $x > 0$  and

$$f'(x) = \frac{1}{2}x^2 + \frac{4}{\sqrt{x}}$$

Find the equation of the normal to C at the point P

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

Sketch

(a)  $-f(x)$ (b)  $f(3x)$ 