

1st April



Corbettmaths

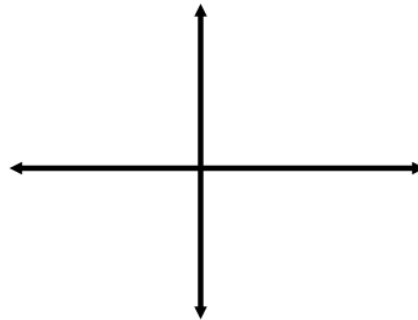
Given that

$$y = 6x^3 - 10 + 9x^{2/3} \quad x > 0$$

Find  $\frac{dy}{dx}$ 

Rationalise the denominator

$$\frac{\sqrt{3}}{2\sqrt{7} - 3\sqrt{3}}$$

Sketch the graph  $y = x^4$ Express  $x^2 + 10x + 21$  in the form  $(x + a)^2 + b$ State the coordinates of the vertex of the curve  $y = x^2 + 10x + 21$