

10th Jan



Corbettmaths

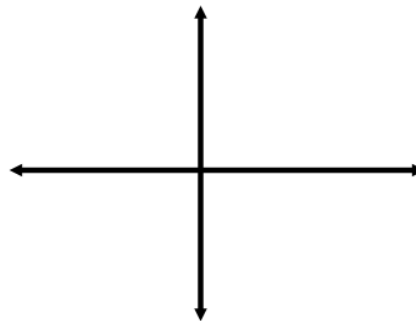
Simplify $\frac{(6x^{\frac{1}{2}})^3}{2x}$

The point P (1, c) lies on the curve with equation $y = (x + 3)^2(5 - x)$

On the same set of axes, draw sketches of:

a) $y = (x + 3)^2(5 - x)$

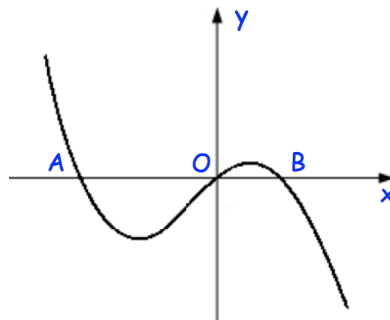
b) $y = \frac{2}{x}$



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

Given $f'(x) = 24 - 10x - 3x^2$

Find an expression for y in terms of x .



Find

$$\sum_{r=1}^{40} 4r + 8$$