

14th May



Corbettmaths

Write down the value of n.

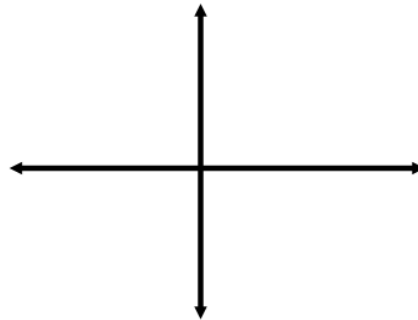
$$\frac{1}{125} = 5^n$$

The curve C has equation  
 $y = x^2(x - 4)$ 

Find

$$\frac{dy}{dx}$$

Sketch curve C

Find the gradient of C at each point  
it meets the x-axis.

Solve the inequality

$$2x^2 \geq 9x - 10$$