

**28th March**

Corbettmaths

Write 16 in the form  $8^n$ 

Rationalise the denominator

$$\frac{\sqrt{3}}{1 + \sqrt{6}}$$

The equation of a circle C, with centre O, is  $x^2 + y^2 = 225$ 

Write down 5 coordinates of points that lie on C.

The speed limit on a road is 50km/h

It took Sam 60 seconds, correct to the nearest 10 seconds, to drive along a road that is 780m long, correct to 2 significant figures.

Could Sam have broken the speed limit?

The area of an equilateral triangle is  $200\text{cm}^2$ Find the length of each side.  
Give your answer to 2 decimal places.