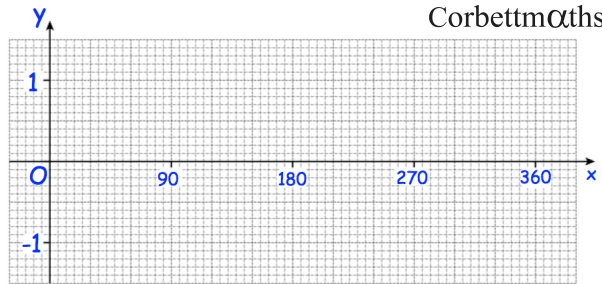


**17th November**

Corbettmaths

Sketch the graph of  $y = \cos x$  for  
 $0 \leq x \leq 360$ .



Express in the form  $a\sqrt{b}$

$$\frac{30}{\sqrt{6}}$$

Solve

$$x + y - 4 = 0$$

$$y^2 - 5 = 4x$$

Solve  $3x^2 + 5x - 105 < 2x^2 - 3x$

A sphere has radius  $c$   
 A hemisphere has radius  $d$ .

The volume of the hemisphere is  
 twice the volume of the sphere.

Work out the value of

$$\frac{d}{c}$$