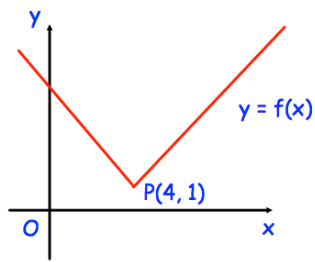


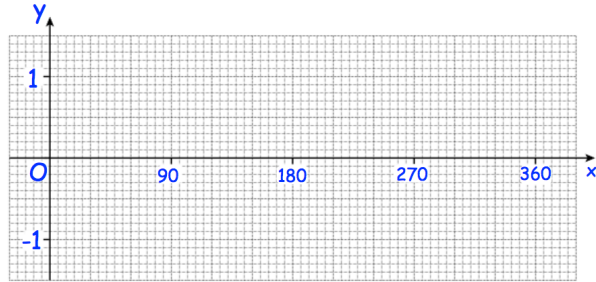
**13th October**

Corbettmaths



What are the coordinates of the new position of P when the graph  $y = f(x)$  is transformed to the graph of  $y = -f(x)$ ?

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



A circle, centre  $(0, 0)$  has a circumference of  $16\pi$

Work out the equation of the circle.

The turning point of the graph  $y = x^2 + ax + b$ , where  $a$  and  $b$  are integers is  $(5, -2)$

Find  $a$  and  $b$

In triangle CDE,  $CD = (x + 1)\text{cm}$ ,  
 $DE = (x + 3)\text{cm}$  and  $CE = 5\text{cm}$ .  
 Angle  $CDE = 60^\circ$

Calculate  $x$  to 2 decimal places.