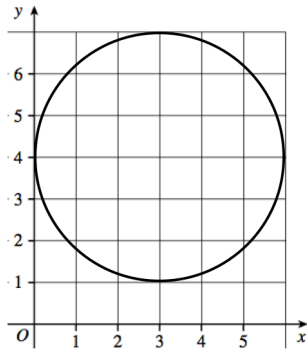


7th June



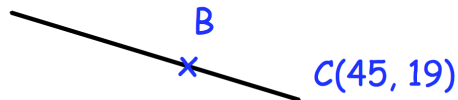
Corbettmaths



Find the equation of the circle.

ABC is a straight line with
 $AB:BC = 5:2$

$A(-11, 40)$



Work out the coordinates of B.

A curve has equation $y = x^2 - 6x$

Find the gradient of the normal to the
 curve at the point $(1, -5)$

Given $\tan\theta = -\frac{24}{7}$ and θ is reflex

Work out the value of $\cos\theta$

Given $2^{89} - 1$ is prime.

Show that $2^{89} + 1$ is a multiple of 3