

**9th November**

Corbettmaths

Show  $x^2 - 7x + 1 = 0$  can be rearranged to the form

$$x = 7 - \frac{1}{x}$$

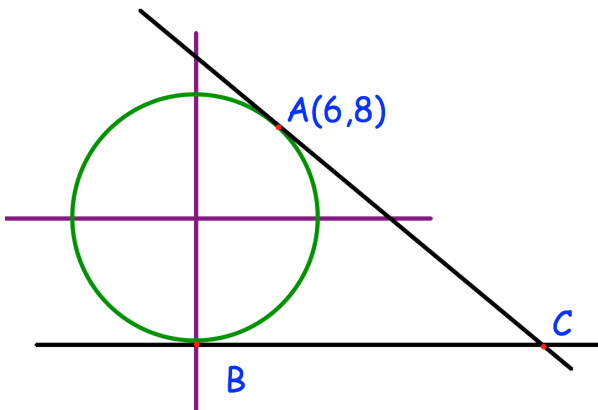
Use the iteration

$$x_{n+1} = 7 - \frac{1}{x_n}$$

to find an approximation solution to  $x^2 - 7x + 1 = 0$

Start with

$$x_1 = 1$$



Find the coordinates of the point B

Shown is a circle, centre O.  
A and B are points on the circle.  
AC and BC are tangents.

Find the coordinates of the point C

Write  $x^2 + 6x + 21$  in the form  $(x + a)^2 + b$

Find the turning point of the graph  $y = x^2 + 6x + 21$