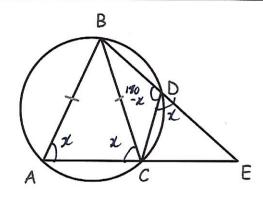
22nd March

Write $(1+4\sqrt{3})(5-\sqrt{3})$ in the form

Corbettmaths

 $a + b\sqrt{3}$ where **a** and **b** are integers.



AB = BC ACE and BDE are straight lines.

Prove that angle BCA = CDE

LBAC = LBCA = X (isoscoles triugle)

LBOC = 180-X (cyd: L quadrilateral)

LCDE = X (straight line)

-- (BCA = CCDE

A circle has centre C and equation $x^2 - 2x + y^2 + 6y - 10 = 0$

$$x^{2} + y^{2} - 2x + 6y - 10 = 0$$

$$(x-1)^2 + (y+3)^2 - 1 - 9 - 10=0$$

 $(x-1)^{2} + (y+3)^{2} = 20$

Find the centre of the circle

Find the radius of the circle