

13th July

Corbettmaths

Rationalise the denominator

$$\frac{5 - \sqrt{3}}{2 + \sqrt{3}}$$

A circle C has centre P

The points A (1, 8) and B (6, 8) lie on the diameter of C.

Write down the equation of the circle.

$$A = \frac{8}{x+1} \quad \text{and} \quad B = \frac{3x+5}{x}$$

Given $5 - A - B = 0$

Work out the possible values of x.
Give your solutions to two decimal places.

Solve $2\sin\theta = 5\cos\theta$ for
 $0^\circ \leq \theta \leq 360^\circ$