

7th October

Corbettmaths

A circle has centre $(-4, 8)$ and radius 5.

Write down the equation of the circle

$$4a(2x + 5) + 3(ax + 1) \equiv b - 55x$$

Work out a and b

Solve the equation

$$\frac{3}{2x - 1} = 1 + \frac{4}{3x - 1}$$

Solve

$$2\cos^2 x + 2 = 7\sin x$$

for $0^\circ < x < 360^\circ$