

**11th May**

Corbettmaths

A circle, centre  $(3, -7)$  has an area of  $64\pi$

Work out the equation of the circle.

The first term of a sequence is  $5 - 2a$

The term-to-term rule of the sequence is subtract  $4a$  and then multiply by  $2$

The fourth term of the sequence is  $58$

Work out the second term of the sequence.

Solve the equation

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

Work out the equation of the normal to the curve  $y = x^3 + 2x - 5$  at the point where  $x = -2$