18th June
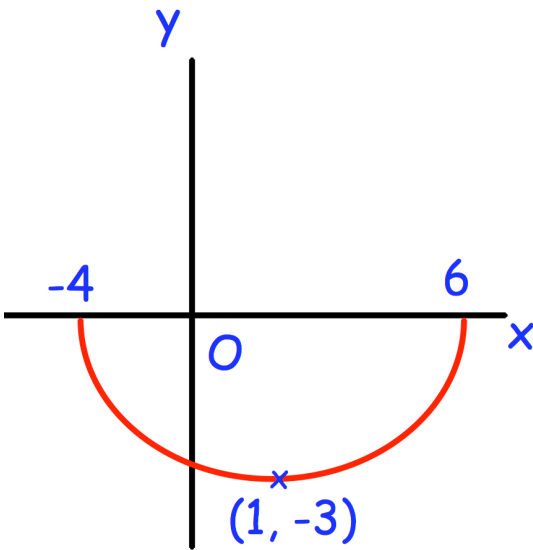
Corbettmaths

Shown is f(x)

State the domain of f(x)

State the range of f(x)

How many solutions are there to
f(x) + 1 = 0 ?

A curve has gradient function
$$\frac{dy}{dx} = 3x^2 - 2x + 1$$

Work out the gradient of the curve when
$x = -2$

Make c the subject of

$$\frac{1}{a} + \frac{b}{4} - \frac{3}{c} + d^2 = 0$$

Prove

$$tan\theta(sin\theta + cos\theta) \equiv sin\theta(1 + tan\theta)$$