

**25th October**

Corbettmaths

Solve  $16x^2 - 30x + 9 = 0$

$f(x) = x^2 - 5$  for all values of  $x$

$g(x) = 6 - 5x$  for all values of  $x$

Work out the range of  $g(x)$ 

Solve  $f(x) = 3g(x)$

Give each answer to 1 decimal place.

The gradient of the curve C is given by

$$\frac{dy}{dx} = (4x - 1)^2$$

Tim says that the tangent at the point A on the curve C is parallel to the line  $y = 2 - x$

Explain why Tim is incorrect.

Solve the simultaneous equations

$$y = x - 2$$

$$x^2 + y^2 = 10$$