

**27th December**

Corbettmaths

The curve  $y = x^2 + 3x - 10$  is reflected in the x-axis.

Write down the equation of the reflected curve.

Show that  $x^4 + 2x^3 + 3x + 6 = 0$  has a solution in the interval  $(-1.6, -1.4)$

$(x + a)^2(x - 2) = x^3 + bx^2 + 12x - 72$   
Find a and b

Sketch the graph of

$$f(x) = x^2 - 2x + 10$$

showing the coordinates of the turning points and the coordinates of any intercepts with the coordinate axes.