

**14th October**

Corbettmaths

Work out

$$\left(6^{\frac{1}{2}} + 6^{\frac{3}{2}}\right)^2$$

The circle C has equation

$$(x + 2)^2 + (y - 1)^2 = 25$$

Find where C crosses the x-axis.

Express

$$\frac{9\sqrt{2} + 5}{4 - 3\sqrt{2}}$$

in the form  $a\sqrt{2} + b$ 

Solve  $x^3 - 13x^2 + 46x - 48 = 0$