



Write 16 in the form 8^n

$$8^{\frac{4}{3}}$$

Rationalise the denominator

$$\frac{\sqrt{3}}{1 + \sqrt{6}} \times \frac{(1 - \sqrt{6})}{(1 - \sqrt{6})}$$

$$\frac{\sqrt{3} - \sqrt{18}}{1 - 6} = \frac{\sqrt{18} - \sqrt{3}}{6 - 1}$$

$$\frac{3\sqrt{2} - \sqrt{3}}{5}$$

The equation of a circle C, with centre O, is $x^2 + y^2 = 225$ $r = 15$

Write down the coordinates of 5 points that lie on C.

$$(0, 15) \quad (0, -15)$$

$$(15, 0) \quad (-15, 0)$$

$$(9, 12) \quad (-9, -12)$$

etc

In a class, there are 12 girls.
Two of the girls are going to be chosen at random to give a presentation.

Work out the number of possible different pairs that can be chosen.

$$\frac{12 \times 11}{2}$$

$$= 66$$

The area of an equilateral triangle is 200cm^2

Find the length of each side.
Give your answer to 2 decimal places.

$$\frac{1}{2} x^2 (\sin 60) = 200$$

$$x^2 (\sin 60) = 400$$

$$x^2 = 461.88 \dots$$

$$x = 21.49 \text{ cm}$$