



Solve

$$4x^2 = 64$$

$$x^2 = 16$$

$$x = 4 \text{ or } x = -4$$

In a box there are red and white counters. Altogether there are 800 counters.

There are exactly 210 more red counters than white counters.

How many white counters are there?

$$x + y = 800$$

$$x - y = 210$$

$$\hline 2x = 1010$$

$$x = 505$$

$$505 - 210 = 295$$

In a sale, all prices are decreased by 15%.

In the sale, a TV costs £323.

Work out the normal price of the TV.

y

$$85\% \text{ of } y = 323$$

$$1\% \text{ of } y = 3.80$$

$$y = \pounds 380$$

Using a calculator, work out

$$\sqrt{\frac{\cos 82^\circ}{\sin 82^\circ}}$$

Write your answer to 2 significant figures

$$0.37488\dots$$

$$0.37$$

Solve $x^2 + x - 72 = 0$

$$(x + 9)(x - 8) = 0$$

$$x = -9 \text{ or } x = 8$$