



Factorise fully

$$64 - 4x^2$$

Rationalise the denominator of

$$\frac{3}{\sqrt{6}}$$

In a netball league there are 14 teams.  
Each team plays each other team once.

Work out the total number of matches  
played.

The cost of a mobile phone is  $x$  pounds  
The cost of a television is  $y$  pounds

When both prices are increased by  
£40, the ratio for the cost of the mobile  
phone to the cost of the television is  
15:22

When both prices are decreased by  
£100, the ratio for the cost of the  
mobile phone to the cost of the  
television is 8:15

Find the values of  $x$  and  $y$