



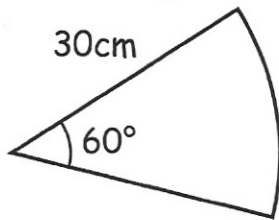
Expand and simplify

$$(y + 3)(y - 5)$$

$$y^2 - 5y + 3y - 15$$

$$y^2 - 2y - 15$$

$$y^2 - 2y - 15$$



Find the area of the sector.

$$\frac{1}{6} (\pi \times 30^2)$$

$$= 150\pi \text{ cm}^2$$

$$= 471.24 \text{ cm}^2$$

A camera is reduced in a sale by 12%.
In the sale it costs £123.20

Work out the normal price of the camera.

$$88\% = 123.20$$

$$1\% = 1.4$$

$$100\% = \pounds 140$$

The speed limit on a road is 50 mph.
A car drives 19 miles in 22 minutes.

$$22 \div 60 = 0.36 \text{ hrs}$$

Is the car breaking the speed limit?

You must show your workings.

$$s = \frac{d}{t} \quad \frac{19}{0.36} = 51.818 \text{ mph}$$

yes, it broke the
speed limit.

Work out 2^{-2}

$$\frac{1}{2^2} = \frac{1}{4}$$