Find the size of x .

$$\cos x = \frac{3}{11}$$

$$x = 74.17^\circ$$

The price of a meal including a 22% tip is £103.70

How much was the tip?

$$122\% \text{ of } y = 103.70$$

$$1\% \text{ of } y = 0.85$$

$$100\% \text{ of } y = 85$$

$$103.70 - 85 = \text{£}18.70$$

Factorise fully $12x^2 - 75y^2$

$$3(4x^2 - 25y^2)$$

$$3(2x - 5y)(2x + 5y)$$

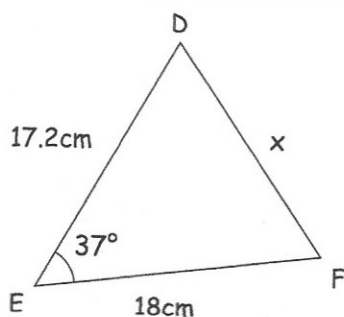
The line passing through the points (5, 3) and (8, -6) is perpendicular to the line passing through the points (-1, 2) and (2, c)

Find c

$$\frac{-9}{3} = -3$$

$$\frac{1}{3} \begin{matrix} (2, c) \\ | \\ (-1, 2) \end{matrix}$$

$$\boxed{c = 3}$$



Find the length of DF.

$$x^2 = 17.2^2 + 18^2 - 2 \times 17.2 \times 18 \times \cos 37$$

$$x^2 = 125.32 \dots$$

$$x = 11.195 \text{ cm}$$