



Write 4240000 in standard form

$$4.24 \times 10^6$$

Write 2 million in standard form.

$$2 \times 10^6$$

Imran leaves £3000 in the bank for two years. It earns compound interest of 2% per year.

Calculate the total amount Imran has in the bank at the end of the two years.

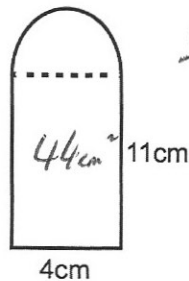
$$3000 \times 1.02^2$$

$$= \pounds 3121.20$$

Solve  $y^2 + 7y + 10 = 0$ 

$$(y+2)(y+5) = 0$$

$$y = -2 \text{ or } y = -5$$



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

$$= 6.283$$

Shown is a compound shape made from a rectangle and semi-circle. Calculate the area of the shape.

$$50.283 \text{ cm}^2$$

$$\mathbf{a} = \begin{pmatrix} -4 \\ -1 \end{pmatrix} \quad \mathbf{b} = \begin{pmatrix} 5 \\ 3 \end{pmatrix}$$

Work out the vector  $\mathbf{a} - \mathbf{b}$ 

$$\begin{pmatrix} -9 \\ -4 \end{pmatrix}$$