## HOME EXERCISE 6

Set out carefully all appropriate working.

1. The graph shown has equation $\mathrm{y}=2 \mathrm{x}-4$.

Use the equation to find the values of $a, b$ and $c$.

2. Factorise fully:
(a) $\mathrm{a}^{2}-16 \mathrm{c}^{2}$
(b) $4 m^{2}-16$
3. Change the subject of the formula to h: $\quad w=4 h^{2} \sqcap t$
4. Solve the equation: $\quad(4 x \square 5)(x+2)=17+2 x(2 x \square 3)$
5. The end-face of the prism shown consists of a rectangle and a semi-circle.
(a) Calculate the area of the end-face.
(b) Hence calculate the volume of the prism.


