HOME EXERCISE 6

Set out carefully all appropriate working.

The graph shown has equation y = 2x - 4.
 Use the equation to find the values of a, b and c.



- 2. Factorise **fully**: (a) $a^2 16c^2$ (b) $4m^2 16$ (3)
- 3. Change the subject of the formula to h: $w = 4h^2 t$ (3)
- 4. Solve the equation:

$$(4x-5)(x+2) = 17 + 2x(2x-3)$$
⁽⁵⁾

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. (c) Calculate the volume of the prism.

Total 20 marks