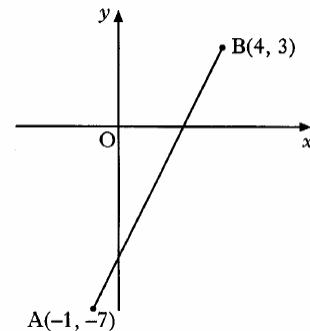


Unit level:

1. Find the equation of the straight line with gradient 2 and y-intercept $(0, -7)$.
2. Find the equation of the straight line with gradient -3 and passes through the point $(-1, -3)$

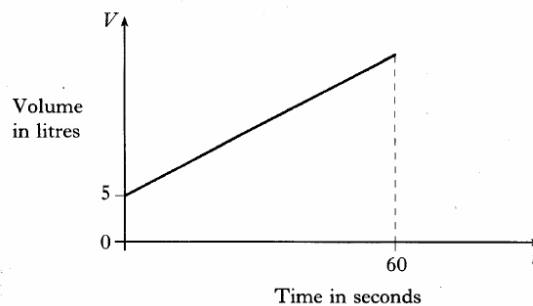
Assessment level:

3. In the diagram, A is the point $(-1, -7)$ and B is $(4, 3)$:



- (a) Find the gradient of the line AB
- (b) AB cuts the y-axis at the point $(0, -5)$. Write down the equation of the line AB.

4. The tank of a car contains 5 litres of petrol. The graph shows how the volume of petrol in this tank changes as a further 45 litres of petrol is pumped in at a steady rate for 60 seconds.



Find the equation of the straight line in terms of V and t

5. A straight line has equation $4x + 3y = 12$. Find the gradient of this line.
6. Find an expression for the gradient of the line joining point $A(6, 9)$ to point $B(4p, 4p^2)$. Give your answer in its simplest form.
7. A straight line is represented by the equation $y = mx + c$. Sketch a possible straight line graph to illustrate this equation when $m > 0$ and $c < 0$.