

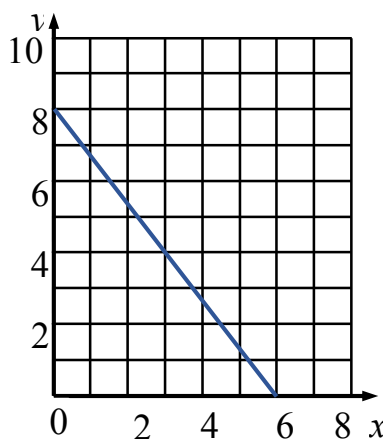
# Equation of a straight line

1. Write down the equation of the line with gradient 5 and  $y$  – intercept of 3.
2. Write down the equation of the line with gradient 8 and  $y$  – intercept of  $-5$ .
3. Write down the equation of the line with gradient  $-3$  and  $y$  – intercept of 4.
4. Write down the equation of the line with gradient  $-1$  and  $y$  – intercept of  $-8$ .
5. Write down the equation of the line with gradient 0.5 and  $y$  – intercept of  $-6$ .
6. Write down the equation of the line with gradient 2.5 and  $y$  – intercept of 12.

1. Find the equation of the line that goes through the points (0,5) and (3,11)
2. Find the equation of the line that goes through the points (4,9) and (0,1)
3. Find the equation of the line that goes through the points (0,12) and (5,7)
4. Find the equation of the line that goes through the points  $(-2,8)$  and  $(0,12)$
5. Find the equation of the line that goes through the points  $(0,-3)$  and  $(-1,13)$
6. Find the equation of the line that goes through the points  $(5,-9)$  and  $(0,-19)$

1. Find the equation of the line that goes through the points (3,8) and  $(-3,2)$
2. Find the equation of the line that goes through the points (2,5) and (4,11)
3. Find the equation of the line that goes through the points  $(-4,3)$  and (5,30)
4. Find the equation of the line that goes through the points  $(-4,2)$  and (1,7)
5. Find the equation of the line that goes through the points (3,5) and (4,1)
6. Find the equation of the line that goes through the points  $(-5,-8)$  and  $(-4,-4)$

1. Find the equation of the line.



2. Here is an equation of a straight line.

$$5y = 30x - 15.$$

- a) What is the gradient of the line?
- b) What is the  $y$  intercept of the line?
- c) Does the point (5, 27) lie on the line?
- d) Does the point (1, 8) lie on the line?
- e) What is the coordinate of where the line crosses the  $x$  axis.