

# The Straight Line

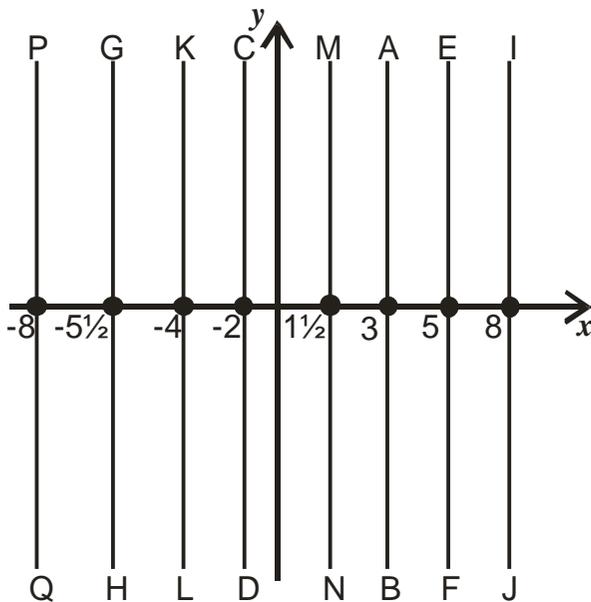
## Exercise 1

- 1) Given  $y = x + 3$  find  $y$  when:      a)  $x = 2$       b)  $x = -4$
- 2) Given  $y = x - 4$  find  $y$  when:      a)  $x = 3$       b)  $x = -1$
- 3) Given  $y = 2x$  find  $y$  when:      a)  $x = 1$       b)  $x = -2$
- 4) Given  $y = 3x$  find  $y$  when:      a)  $x = 5$       b)  $x = -6$
- 5) Given  $y = 2x + 7$  find  $y$  when:      a)  $x = 3$       b)  $x = -2$
- 6) Given  $y = 2x - 3$  find  $y$  when:      a)  $x = 4$       b)  $x = -1$
- 7) Given  $y = 3x - 5$  find  $y$  when:      a)  $x = 4$       b)  $x = -3$
- 8) Given  $y = 3x - 2$  find  $y$  when:      a)  $x = 6$       b)  $x = -2$
- 9) Given  $y = 5x + 1$  find  $y$  when:      a)  $x = 1$       b)  $x = 0$
- 10) Given  $y = 6x - 3$  find  $y$  when:      a)  $x = 2$       b)  $x = -3$
- 11) Given  $y = \frac{1}{2}x$  find  $y$  when:      a)  $x = 10$       b)  $x = -4$
- 12) Given  $y = \frac{1}{3}x$  find  $y$  when:      a)  $x = 3$       b)  $x = -9$
- 13) Given  $y = \frac{1}{2}x + 2$  find  $y$  when:      a)  $x = 4$       b)  $x = -6$
- 14) Given  $y = \frac{1}{2}x - 3$  find  $y$  when:      a)  $x = 2$       b)  $x = -4$
- 15) Given  $y = \frac{1}{3}x + 1$  find  $y$  when:      a)  $x = 6$       b)  $x = -3$
- 16) Given  $y = \frac{2}{3}x - 2$  find  $y$  when:      a)  $x = 9$       b)  $x = -6$
- 17) Given  $y = -\frac{1}{2}x + 2$  find  $y$  when:      a)  $x = -6$       b)  $x = 9$

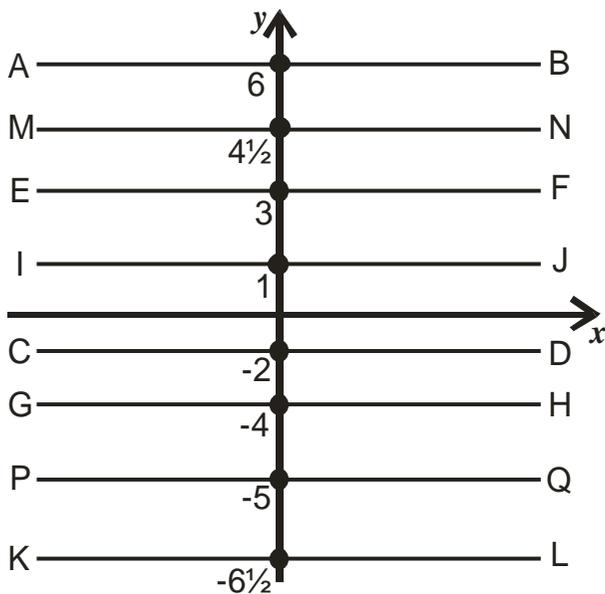
## Exercise 2

1) Write down the equation of the lines in these diagrams.

a)

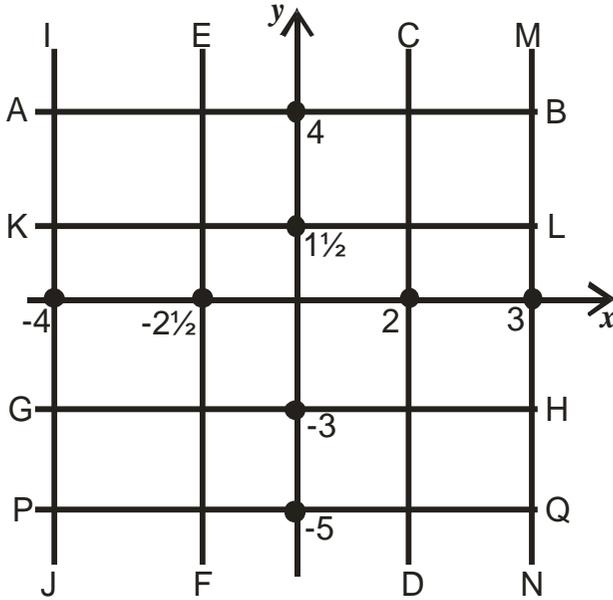


b)

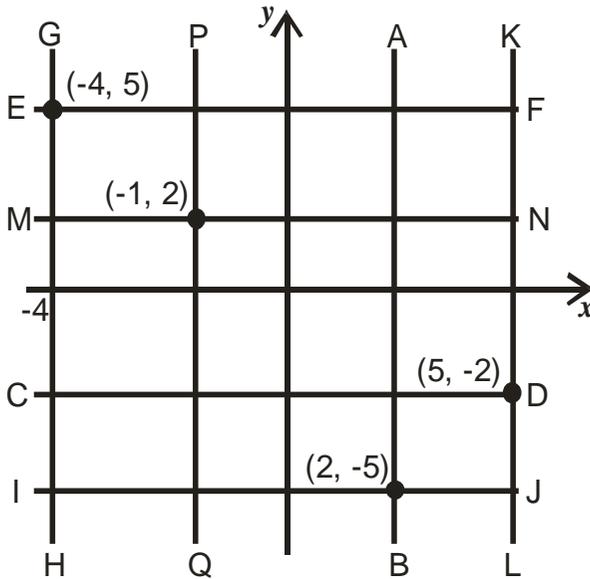


2) Write down the equation of the lines in these diagrams.

a)



b)



3) Draw x, y axes running from -8 to 8.

On this diagram draw the lines with equations

a)  $x = 3$

b)  $y = 7$

c)  $x = -4$

d)  $y = -8$

e)  $y = 1$

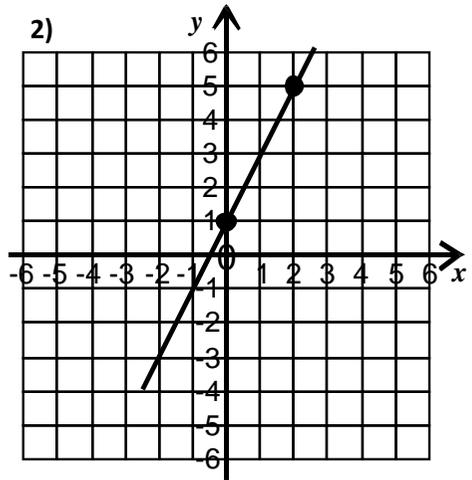
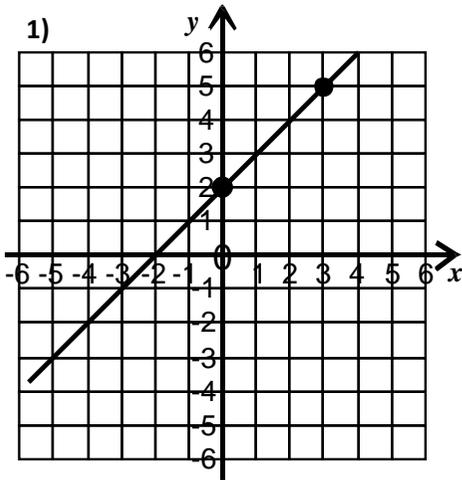
f)  $x = -2$

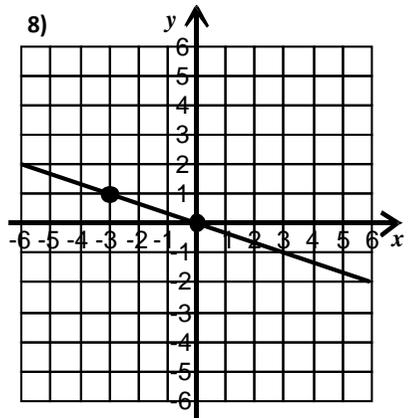
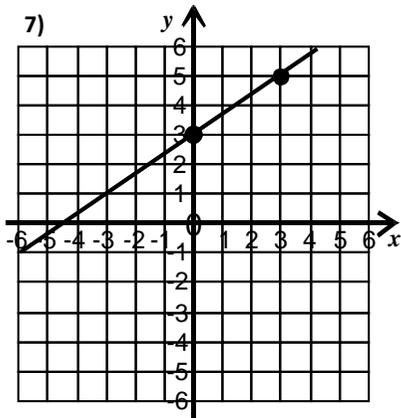
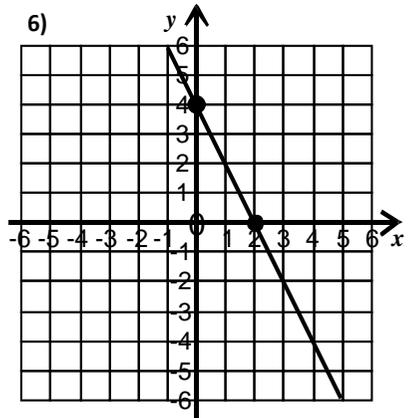
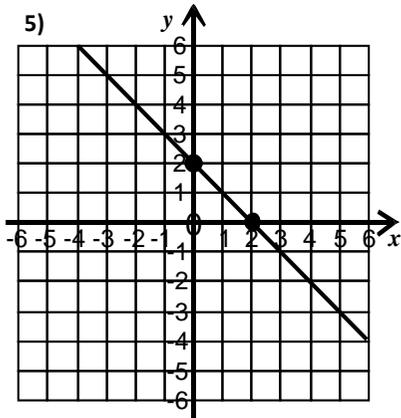
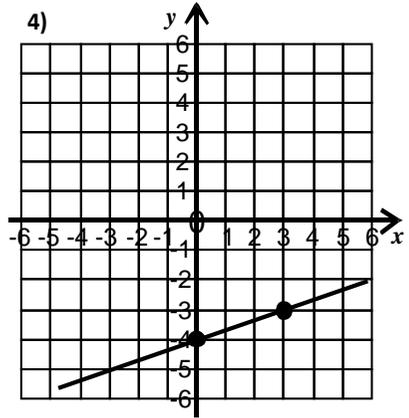
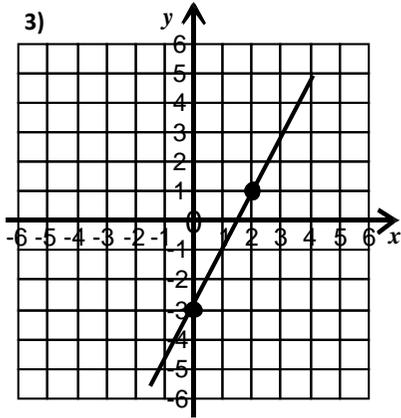
g)  $y = -2\frac{1}{2}$

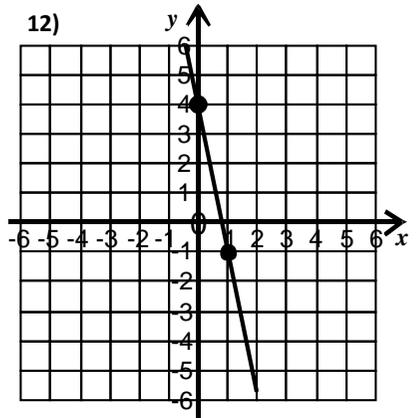
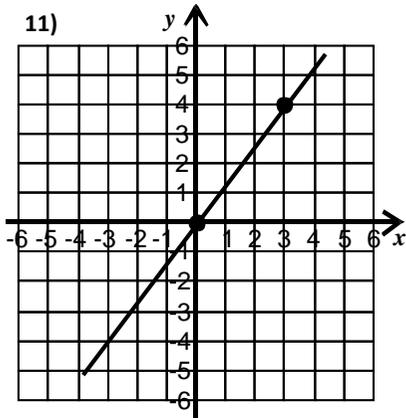
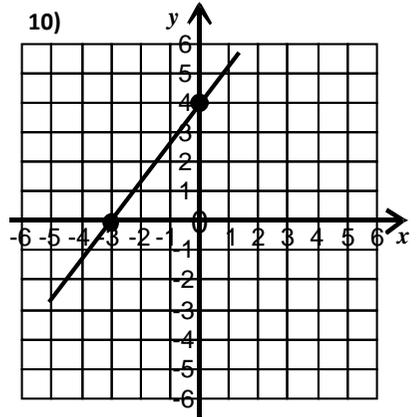
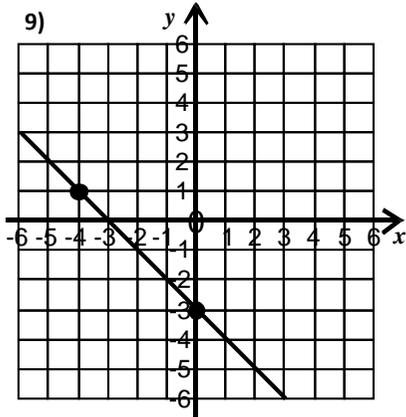
h)  $x = -2\frac{1}{2}$

### Exercise 3

Find the equation of the straight line shown in the diagram.



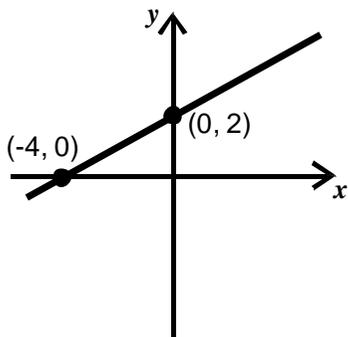




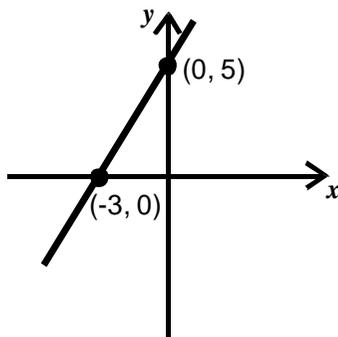
## Exercise 4

Find the equation of the straight line shown in the diagram.

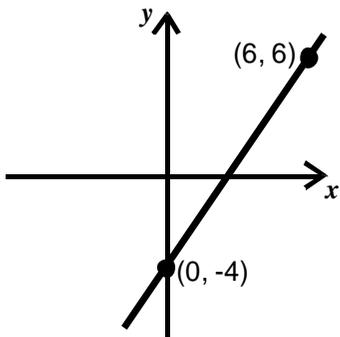
1)



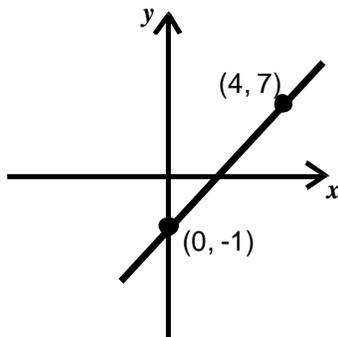
2)



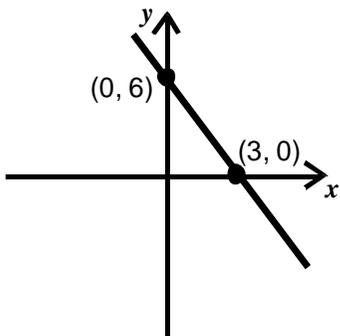
3)



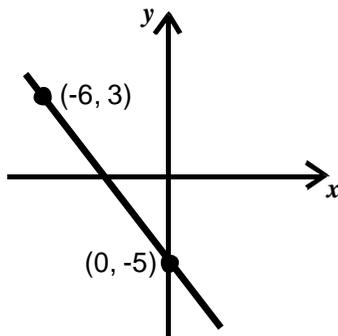
4)



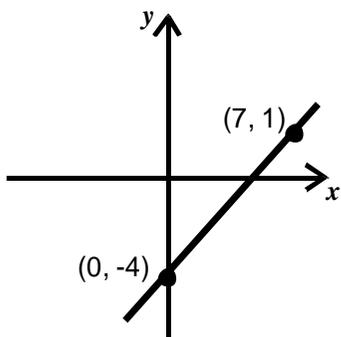
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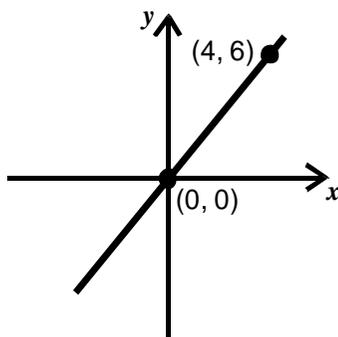
6)



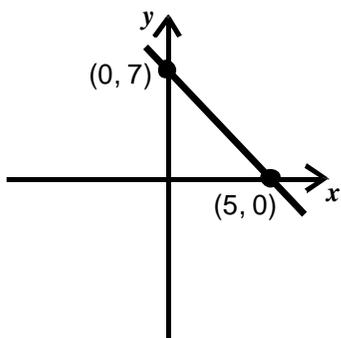
7)



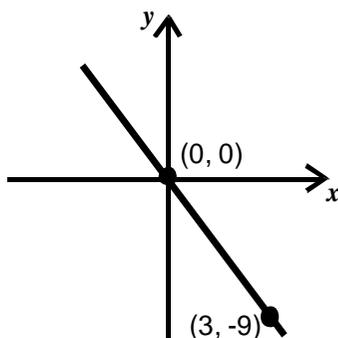
8)



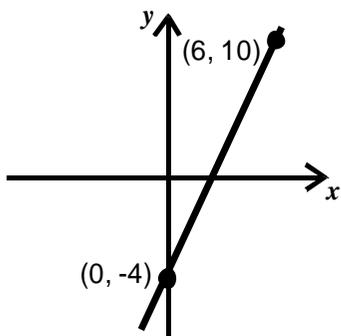
9)



10)



11)



12)

