Pearson Edexcel - Thursday 7 June 2018 - Paper 2 (Calculator) Foundation Tier
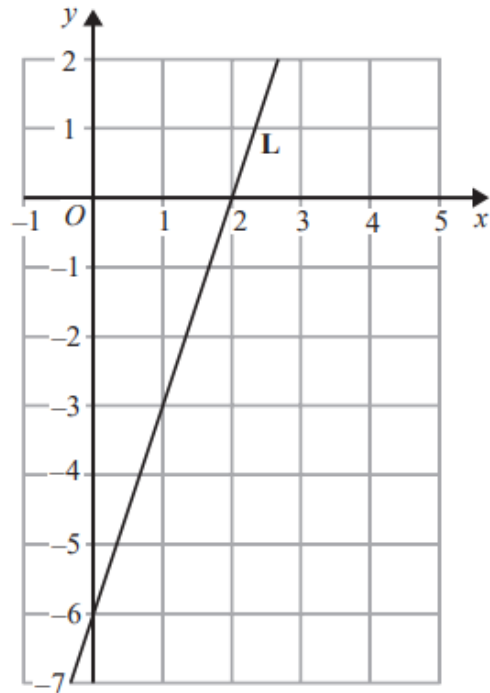
1.

22 The line **L** is shown on the grid.

Find an equation for **L**.
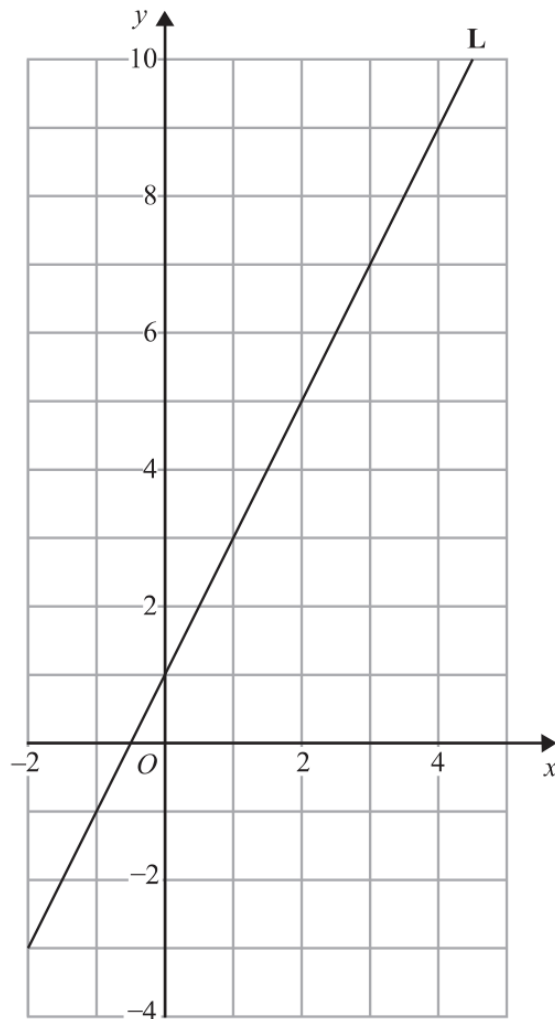
....

(Total for Question 22 is 3 marks)

2.

23 Line **L** is drawn on the grid below.

Find an equation for the straight line **L**.
Give your answer in the form $y = mx + c$

....

(Total for Question 23 is 3 marks)

3.

27 Here are the equations of four straight lines.

Line A $y = 2x + 4$
Line B $2y = x + 4$
Line C $2x + 2y = 4$
Line D $2x - y = 4$

Two of these lines are parallel.
Write down the two parallel lines.

Line .... and line ....

(Total for Question 27 is 1 mark)

4.

23 A straight line with gradient 4 passes through the point (1, 5).

Find the equation of the line in the form $y = mx + c$.

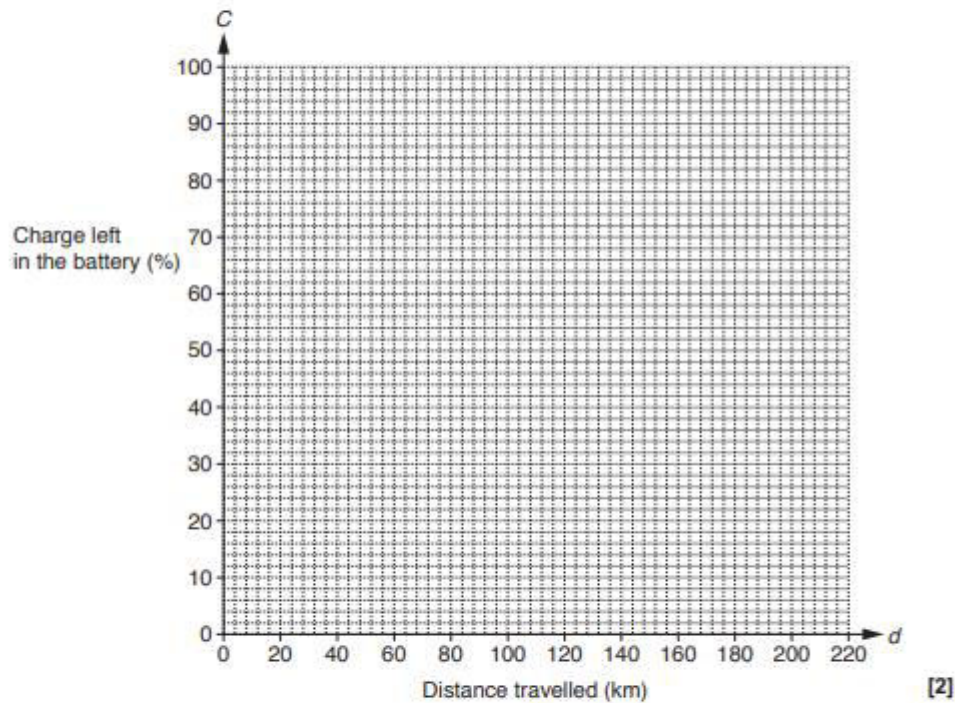.. **[3]**

5.

11 A company tests a new battery for an electric car.
The distance the car travels, d km, and the charge left in the battery, $C\%$, are measured.

Some measurements are shown in the table.

Distance travelled, d km.	0	50	100	150
Charge left in the battery, $C\%$.	100	75	50	25

(a) Plot these values on the grid and use them to draw a straight line.

Distance travelled (km)

[2]

(b) (i) Use your line to estimate the greatest distance the car will travel.

(b)(i) .... km **[1]**

(ii) What assumption is made when estimating the greatest distance?

....

.... **[1]**

(c) For your line in part **(a)**, find

    (i) the gradient,

                                       (c)(i) .... **[1]**

    (ii) the C-axis intercept.

                                         (ii) .... **[1]**

(d) Use your answers to part **(c)** to write down the equation of your graph.

    Give your equation in the form $C = ad + b$.

                                      (d) $C = $ .... **[1]**

(e)   **(i)** Use your equation to find the value of C when $d = 210$.

                                      (e)(i) .... **[2]**

    (ii) Comment on your answer.

    ....

    .... **[1]**

6.

12 (a) Find the coordinates of the point where $y - 2x = 1$ crosses the y-axis.

(a) (......................... , ...) **[2]**

(b) The diagram shows the graph of $y = 3x + c$, where c is a constant.
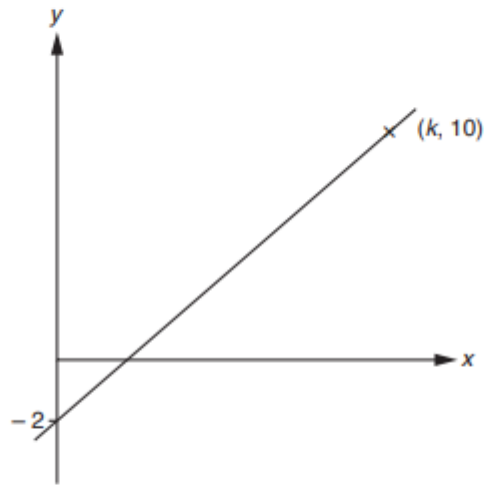
Find the value of k.

(b) $k =$ .... **[3]**

7.

17   A straight line passes through O and (2, 6)
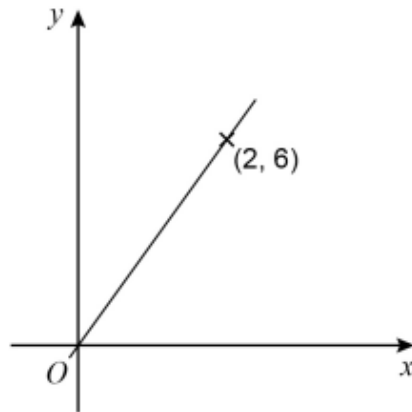
Circle the equation of the line.

[1 mark]

$y = x + 4$ $y = 6$ $y = 3x$ $y = \dfrac{1}{3}x$

AQA Monday 8 June 2020 – Morning (Calculator) Foundation Tier

8.

21   Circle the equation of the line parallel to $y = 5x + 2$

[1 mark]

$y = 2x + 5$ $y = 5x - 2$ $y = -5x + 2$ $y = -2x - 5$

AQA Thursday 6 June 2019 – Morning (Calculator) Foundation Tier

9.

15   A line has the equation $y = x + 3$

15 (a)   Write down the coordinates of the point where the line intersects the y-axis.

[1 mark]

Answer   (_____ , _____)

15 (b)   Write down the coordinates of the point where the line intersects the x-axis.

[1 mark]

Answer   (_____ , _____)

10.

28   A straight line

has gradient 4

and

passes through the point (5, 23)

Work out the equation of the line.

Give your answer in the form $y = mx + c$

[3 marks]

Answer _____

11.

16   Circle the point that lies on the line $x - 3 = 0$

[1 mark]

(3, 0)   (0, 3)   (−3, 0)   (0, −3)