



Equation of a Straight Line Exam Practice

Q1. Find an equation of the line which passes through the point P where $P = (0, 5)$ and has gradient 3.

Answer: _____
(2 marks)

Q2. A line passes through the points $A = (0, -2)$ and $B = (8, -4)$. Work out an equation of the line.

Answer: _____
(2 marks)



Q3. A line passes through the points $C = (3, -2)$ and $D = (7, 10)$. Work out an equation of the line.

Answer: _____
(2 marks)

Q4. Write down the gradient and y-intercept of the line which has equation $y = -2x - 7$

Answer: _____
(2 marks)



Q5. Find the gradient and y-intercept of the line which has equation $2y - 6x = 8$

Answer: _____
(2 marks)

Q6. A line L has equation $4y = -6x + 11$
(i) Work out the gradient of the line L .

Answer: _____
(2 marks)

(ii) Find the co-ordinates of the point where the line L crosses the x -axis

Answer: _____
(2 marks)



Q7. A line L has equation $10x - 2y - 9 = 0$

- (i) Work out the gradient of the line L .

Answer: _____
(2 marks)

- (ii) Write down an equation of a line parallel to line L .

Answer: _____
(1 mark)

- (iii) Is the point $(-1, -9)$ on the line L ? Justify your answer.

Answer: _____
(2 marks)



Q8. A line L has equation $cy + ax = b$ where a , b and c are non-zero numbers.

(i) Work out the gradient of the line L .

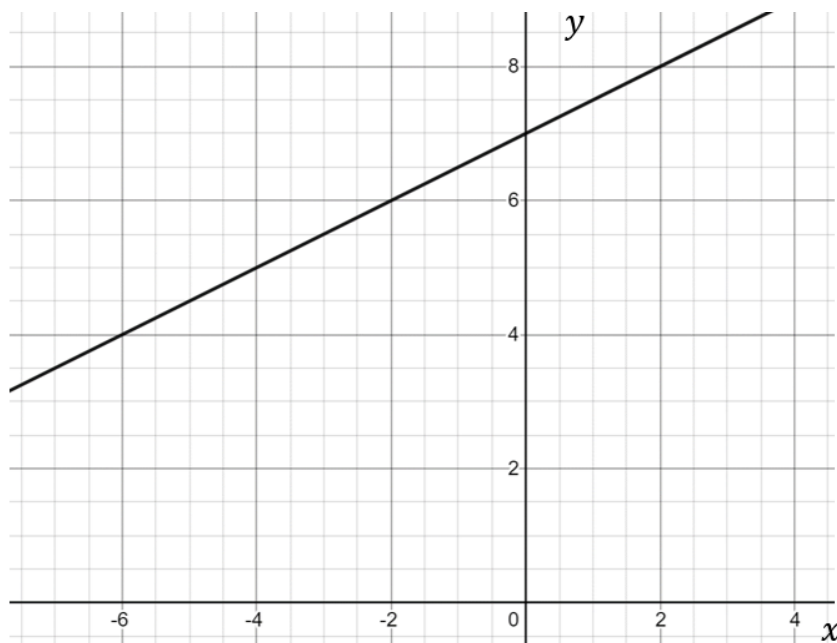
Answer: _____
(2 marks)

(ii) Find the co-ordinates of the point where the line L crosses the y -axis

Answer: _____
(1 mark)

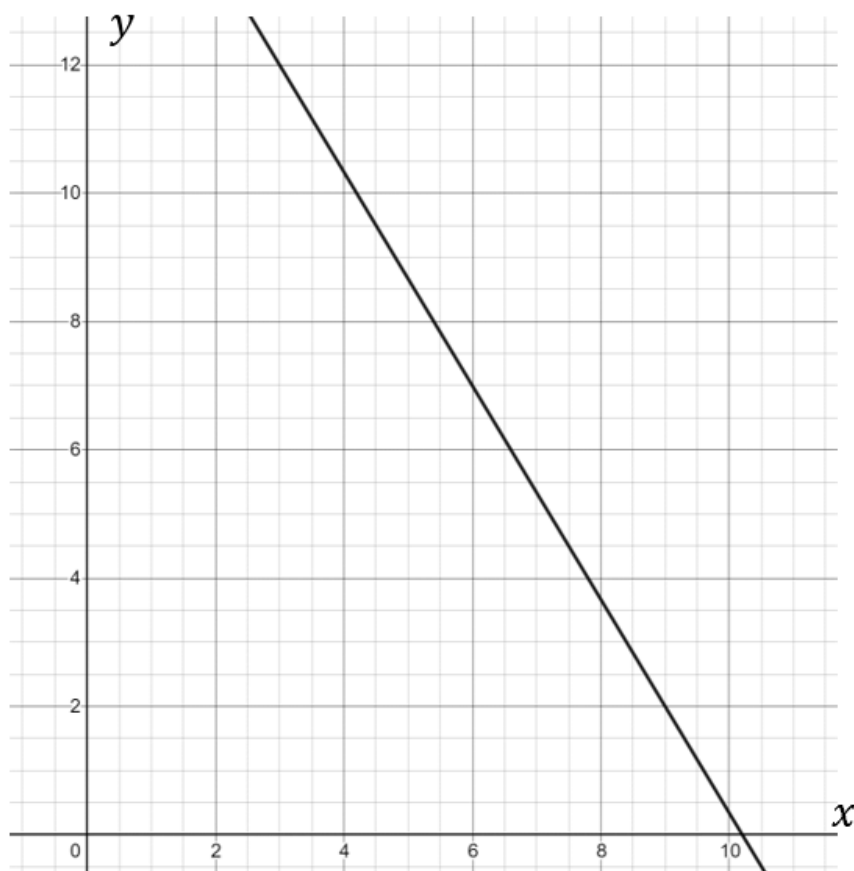


Q9. Find the equation of the lines shown:



Answer: _____
(2 marks)

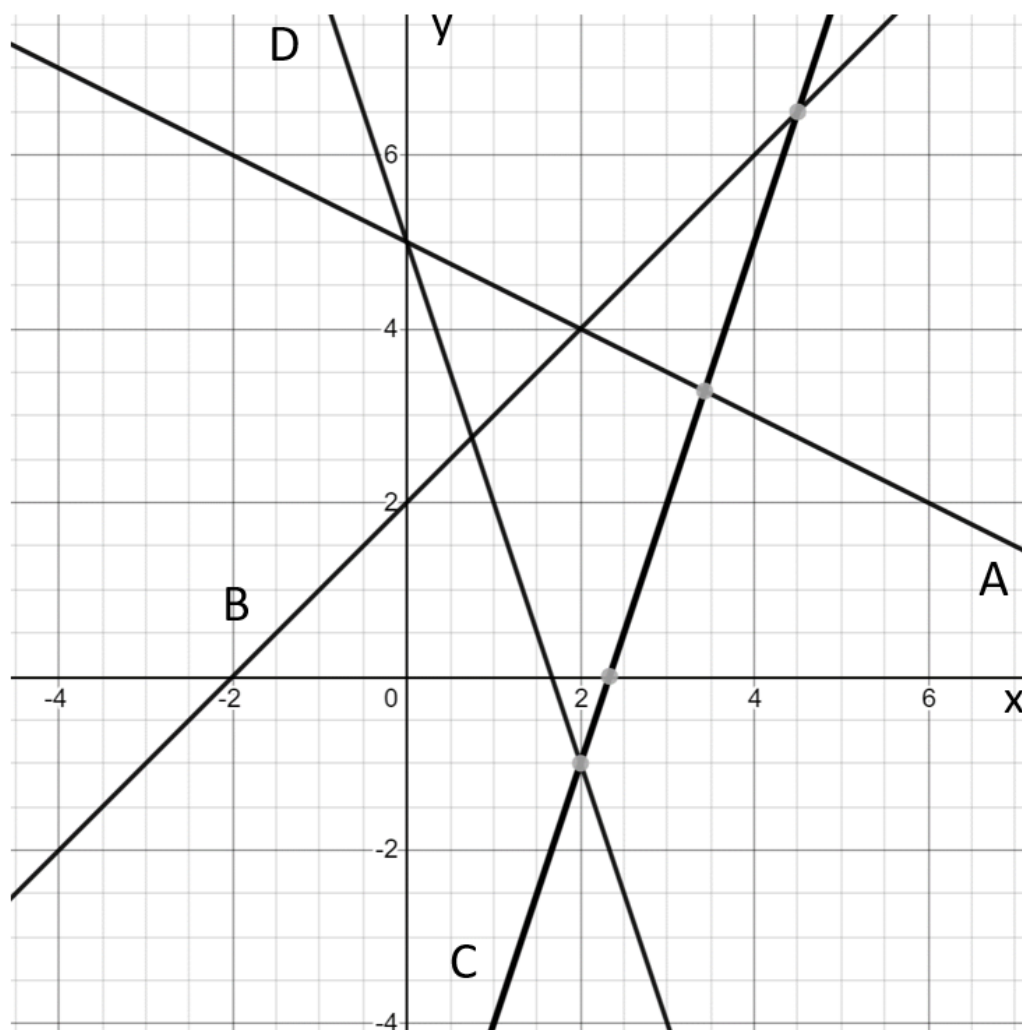
Q10. Find the equation of the line shown:



Answer: _____
(2 marks)



Q11. Label each equation with the letter of the line it corresponds to.



1. $y = x + 2$

2. $y = -3x + 5$

3. $y = -\frac{1}{2}x + 5$

4. $y = 3x - 7$

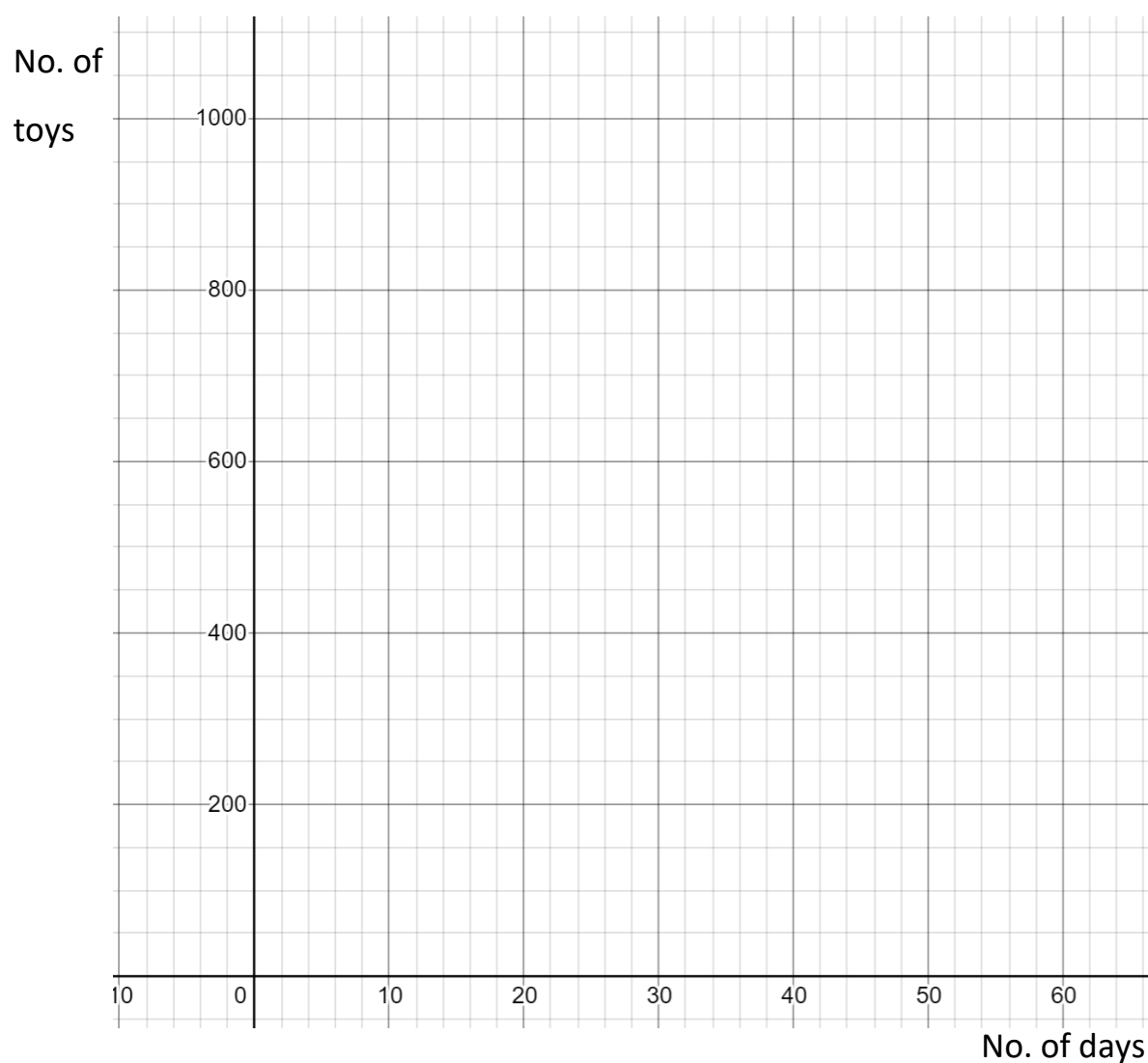
Answer: _____

(3 marks)



Q12. At a new factory, the daily number of toys produced has increased by 50 each day. On the 9th day, the number of toys produced was 560.

Draw a straight line on the graph to show this information.



Answer: _____

(2 marks)