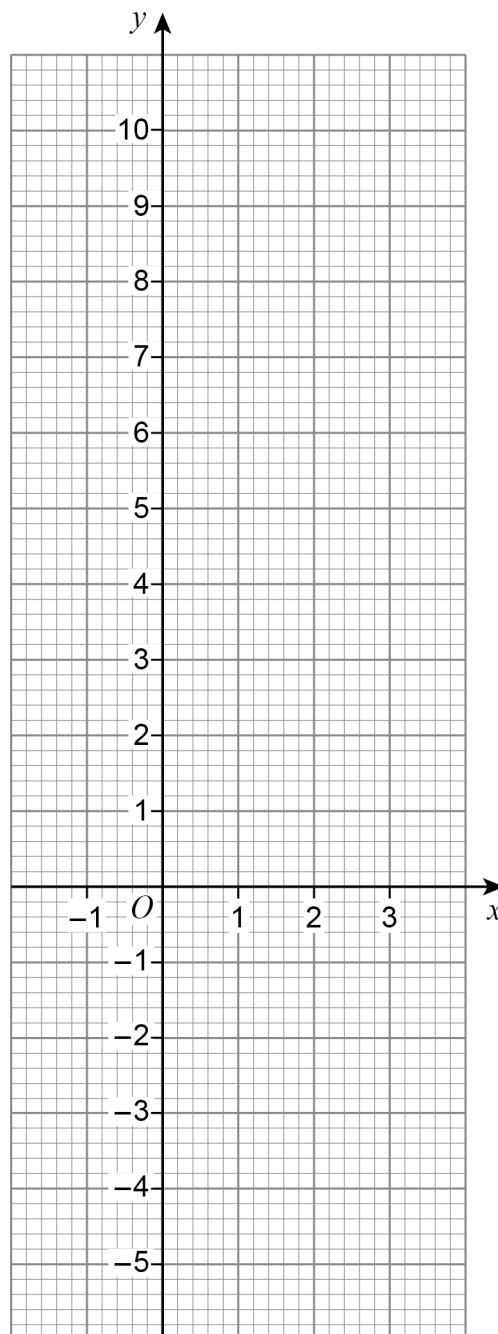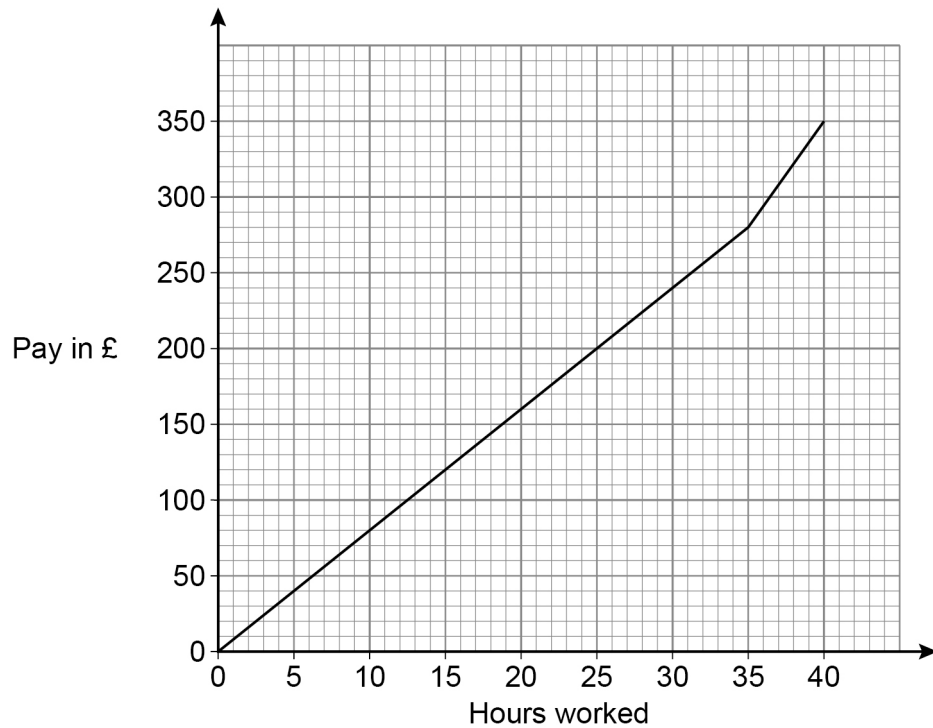**1**   Draw the graph of $y = 3x - 1$ for values of x from -1 to 3

[3 marks]

2   The graph shows how much Molly is paid for working for up to 40 hours.

She receives

a basic rate of pay for the first 35 hours worked

a higher rate of pay for the next 5 hours worked.

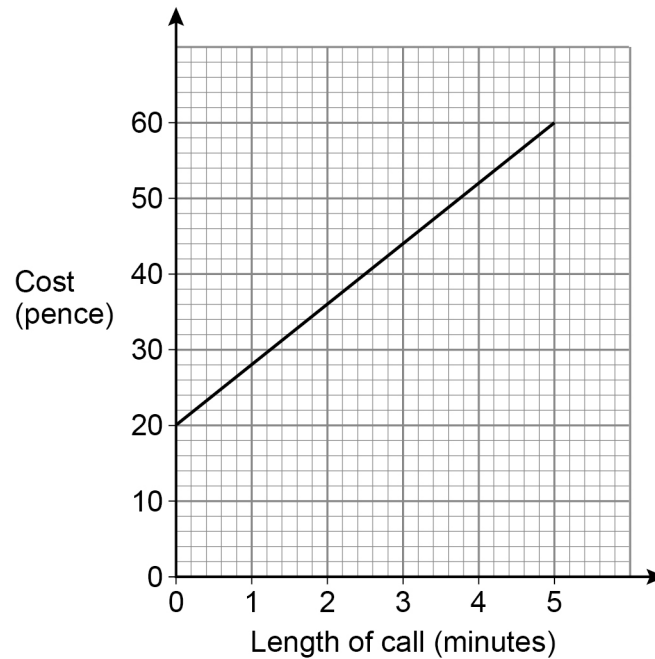Work out the difference between the higher rate of pay and the basic rate of pay.

Give your answer in £ per hour.

[3 marks]

_____

_____

_____

_____

Answer £_____ per hour

3 The cost of making a phone call is

a fixed charge

and

a charge per minute.

The costs of phone calls up to 5 minutes are represented by the graph.

3 (a) Write down the fixed charge.

[1 mark]

Answer _____ pence

3 (b)   Work out the charge per minute.

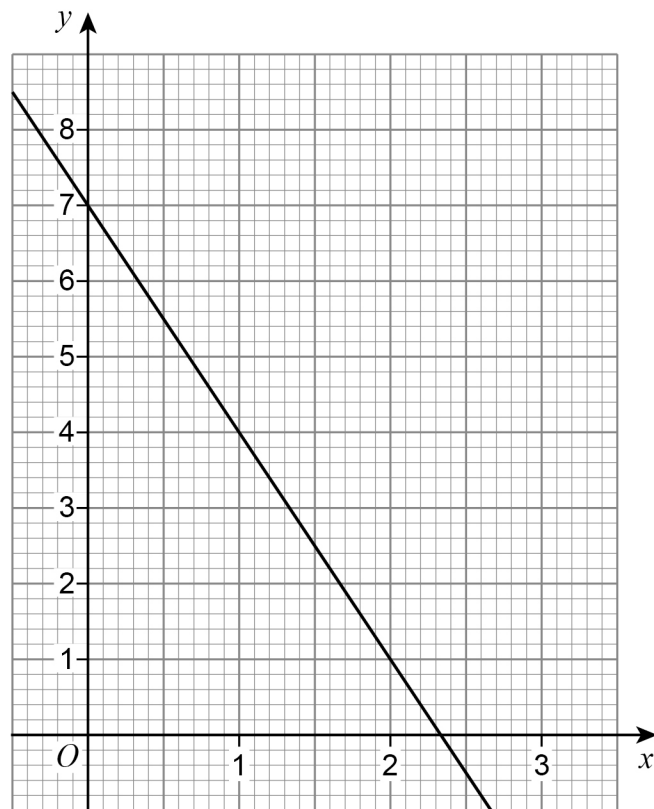**[2 marks]**

Answer _____ pence

3 (c)   Work out the cost of a phone call lasting 7 minutes.

[2 marks]

Answer _____ pence

Turn over for the next question

4   Here is the graph of $y = 7 - 3x$

Draw the graph of $y = 2x + 1$ on the grid

and then

work out an approximate solution to $7 - 3x = 2x + 1$
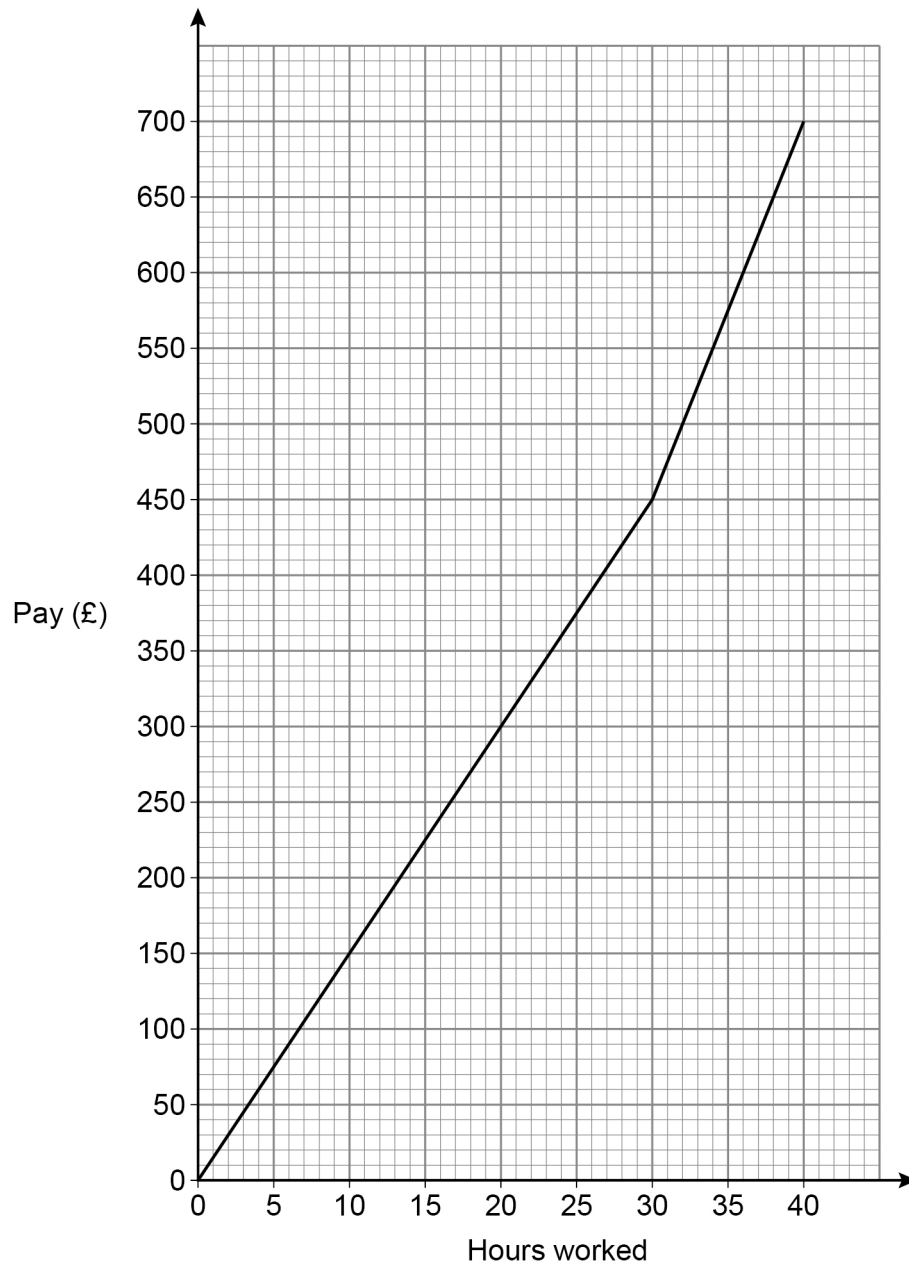
[3 marks]

Answer _____

5   In a week, Samir is paid

a basic hourly rate for the first 30 hours worked

an overtime hourly rate for any extra hours worked.

The graph shows his pay for working up to 40 hours in a week.

Work out the ratio   basic hourly rate : overtime hourly rate

Give your answer in its simplest form.

[3 marks]

Answer _____ : _____

6

x	0	2	4	6	8	
y	3	7	11		19	23

The x-values in the table make a linear sequence.
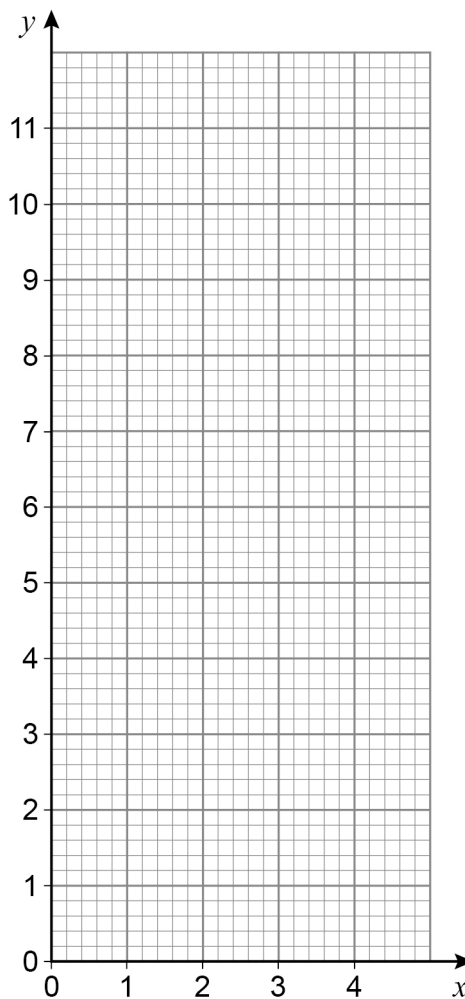
The y-values in the table make a different linear sequence.

6 (a)   Complete the table.

[2 marks]

6 (b)   Draw a straight line passing through the points (0, 3), (2, 7) and (4, 11)

[2 marks]

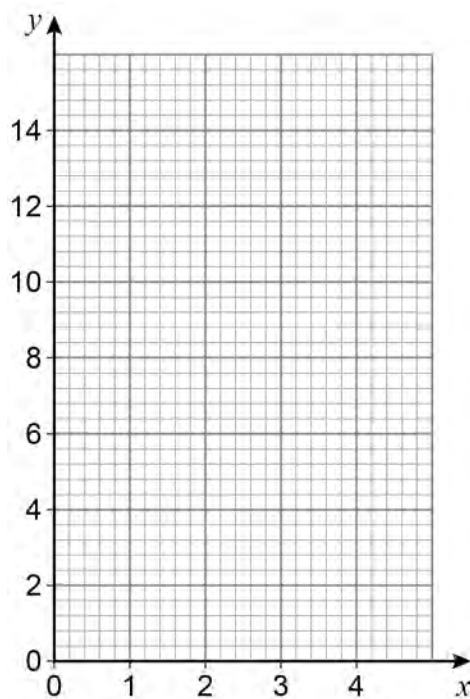**6 (c)** Use the graph to work out the value of y when $x = 3$

[1 mark]

$y =$ _____

7   Here is a table of values for the equation $y = 3x + 1$

x	1	2	3	4
y	4	7	10	13

7 (a)   Draw the graph of $y = 3x + 1$ for values of x from 1 to 4

[2 marks]

7 (b)   Work out the value of y when $x = 2.5$

[2 marks]

$y =$ _____