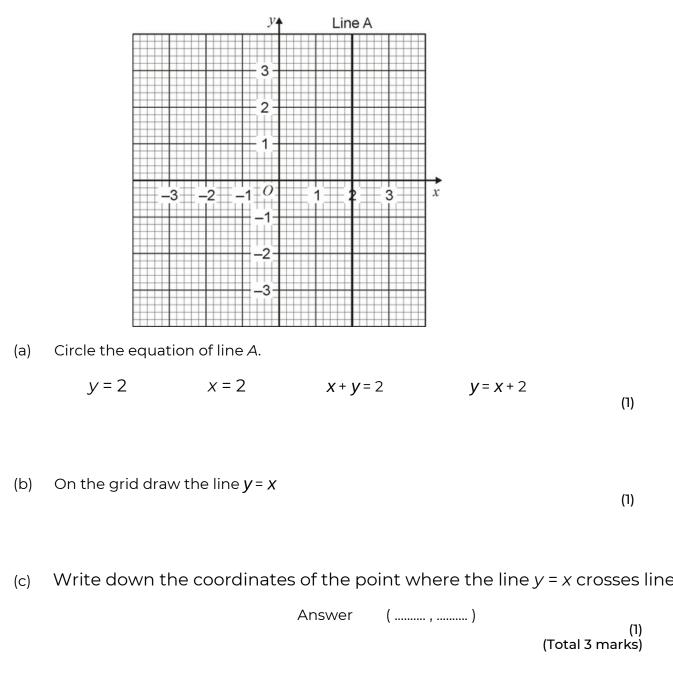
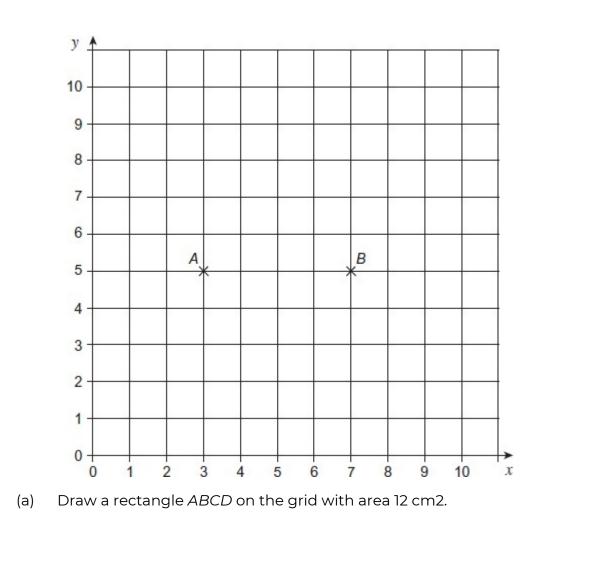
Q1.



Q2.Points A and B are shown on the centimetre grid.

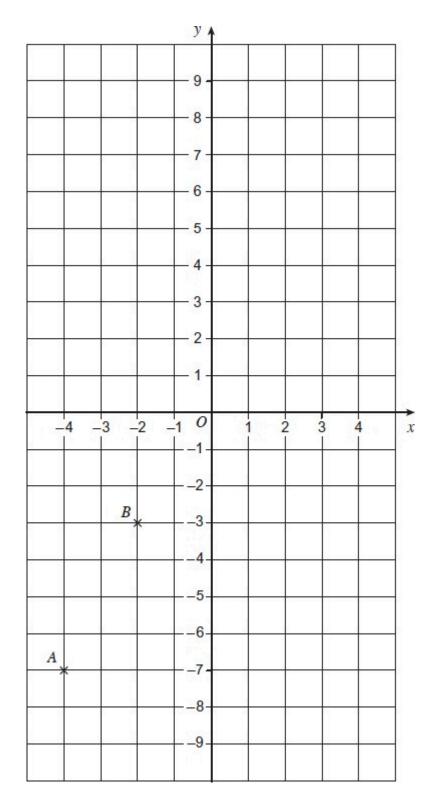


(b) Write down the coordinates of point C and point D.

(2) (Total 4 marks)

(2)

Q3.Points A (-4, -7) and B (-2, -3) are plotted. A and B lie on the line y = 2x + 1



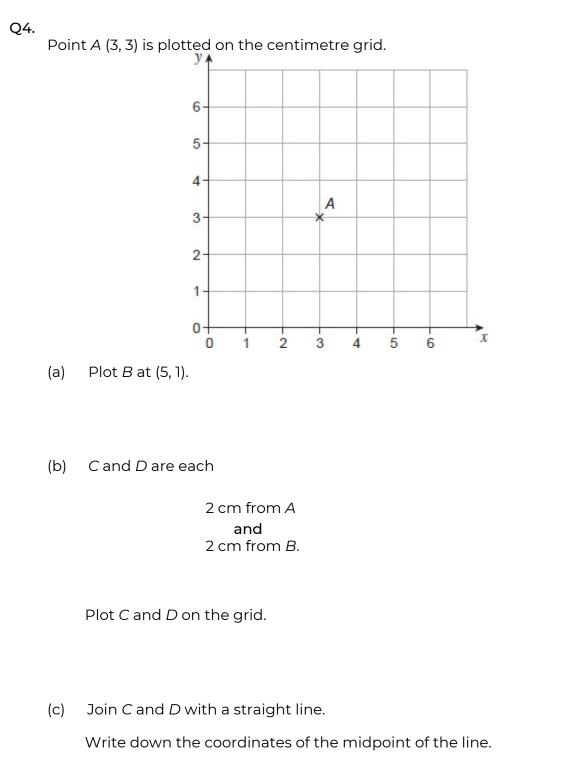
Write down the coordinates of two other points on the J/h = 2x + 1

Answer

(.....)

(.....)

(Total 2 marks)



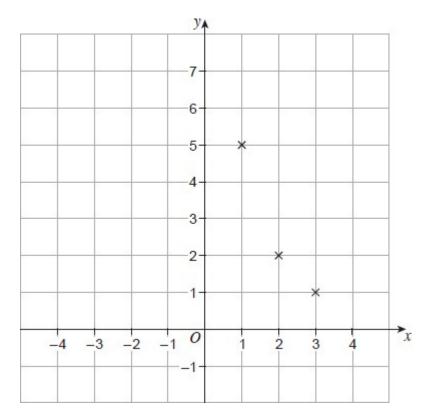
Answer (..... ,)

(1) (Total 4 marks)

(1)

(2)

Q5.



(a) Three points are shown on the grid.

Circle the point which does **not** lie on the lide + y=7

(1)

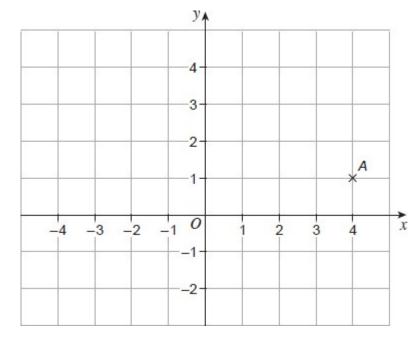
(b) Work out the coordinates of the point where the line 2x + y = 7 crosses the x-axis.

Answer (..... ,)

(2) (Total 3 marks)

Q6.

Point *A* is marked on the grid.



(a) What are the coordinates of A?

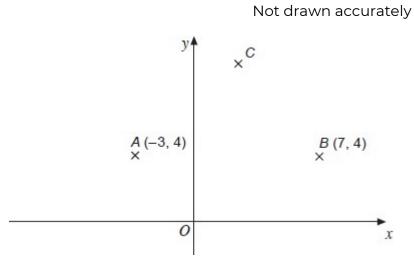
Answer (..... ,)

(b) Plot and label the point B (-2, 4).

(1) (Total 2 marks)

Q7.

Points A, B and C are plotted.



(1)

They form an **isosceles** triangle such that AC = BCA is (-3, 4) and B is (7, 4). The area of triangle ABC is 20 square units.

Work out the coordinates of *C*.

You must show your working, some of which may be on the diagram.

A	nswer (,

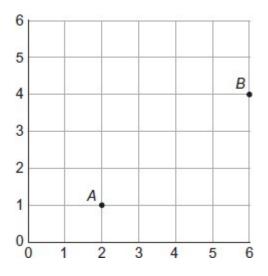
(Total 4 marks)

(1)

Q8.

Here is a scale diagram of a village. The grid lines are the roads in the village.

Scale 1 centimetre represents 100 metres



(a) Alan's house, A, has coordinates (2, 1).

Write down the coordinates of Ben's house, B.

Answer (..... ,)

(b) Alan walks along the roads from A to B.

Work out the **shortest** possible distance that he can walk.

Answer metres

(2)

(c) Colin's house, *C*, is in the village.

The shortest distance along the roads from C to A is 600 metres. The shortest distance along the roads from C to B is 500 metres.

Work out the coordinates of C.

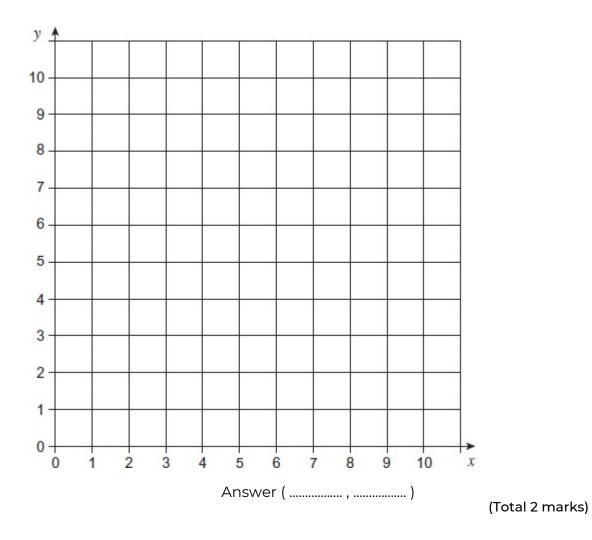
Answer (..... ,)

(2) (Total 5 marks)

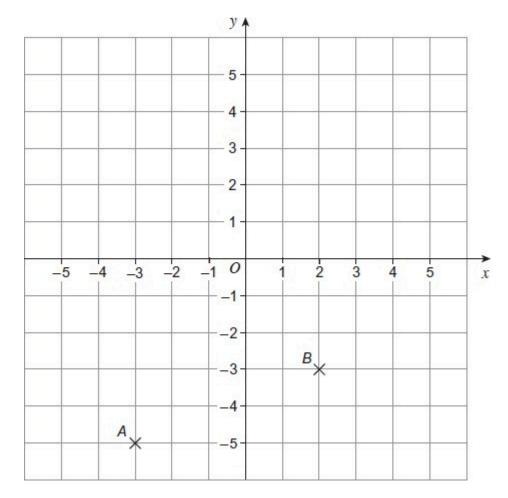
Q9.*A* is the point (2, 9) *B* is the point (6, 5) *ABC* is a straight line.

AB = BC

Work out the coordinates of point *C*. You may use the grid to help you.



Q10.Points A and B are shown on the grid.



(a) Write down the coordinates of A and B.

Answer A (..... ,)

B (..... ,)

(b) Plot point C on the grid so that

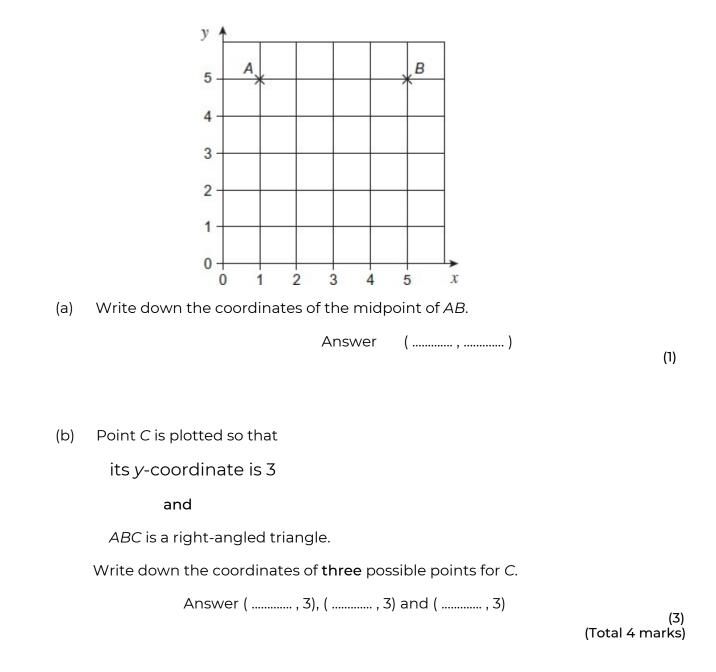
the *x*-coordinate of *C* is less than the *x*-coordinate of *A*

and the *y*-coordinate of *C* is positive and even.

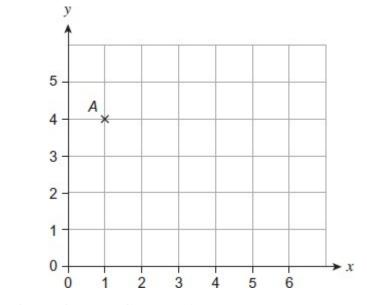
(2) (Total 4 marks)

(2)

Q11.Points A and B are shown on the centimetre grid.



Q12.



(a) Write down the coordinates of A.

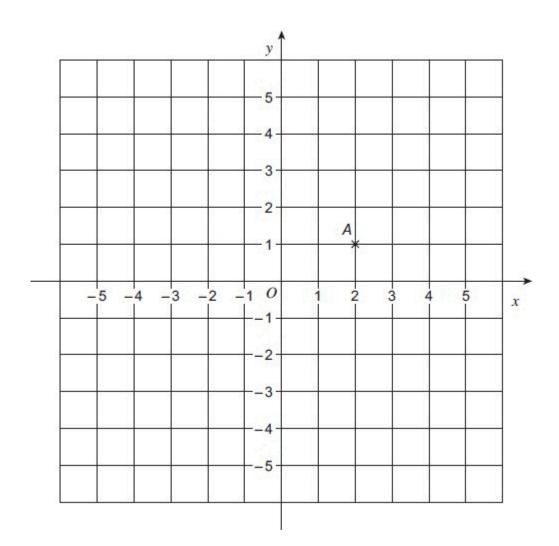
(1)

(b) M is the midpoint of the line AB. M is the point (3, 4).Plot the point B.

> (2) (Total 3 marks)

Q13.

Point A is shown on the centimetre grid.



(a) Write down the coordinates of A.

Answer (.....)

(b) Plot B (-4,1) on the grid.

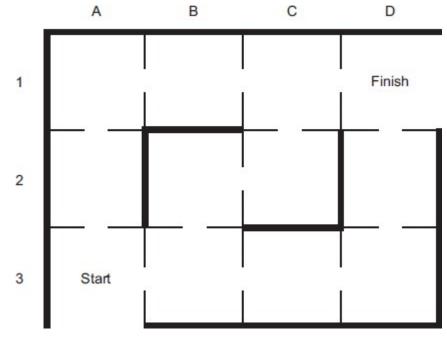
(c) ABC is a right-angled triangle. It has an area of 12 cm2.Mark a possible point C on the grid. (1)

(1)

Q14.

(a) A maze has 12 rooms.

Walls without doors are shown a **Constant** Other walls have doors which are shown as gaps.



One path from Start to Finish is $A3 \rightarrow B3 \rightarrow$

 $\mathsf{A3} \rightarrow \mathsf{B3} \rightarrow \mathsf{C3} \rightarrow \mathsf{D3} \rightarrow \mathsf{D2} \rightarrow \mathsf{D1}$

(2)

Complete these two paths through the maze.

First path A3 \rightarrow B3 \rightarrow B2 \rightarrow

Second path A3 → A2 → A1 →

(b) This maze has money in some of the rooms.

		А	В	С	D			
	1	£2	£2	£1	Finish			
	2	£2	£1	£5	£2			
	3	Start	£1	£1	£2			
(i) How much is in room B3? £								
(ii)	ii) Which room has £5? Answer							
(iii)	Money is collected as you go through the maze from Start to Finish. You can only go through a room once . Complete the path that collects the most money. A3 → B3 →							

(2) (Total 6 marks)

(1)

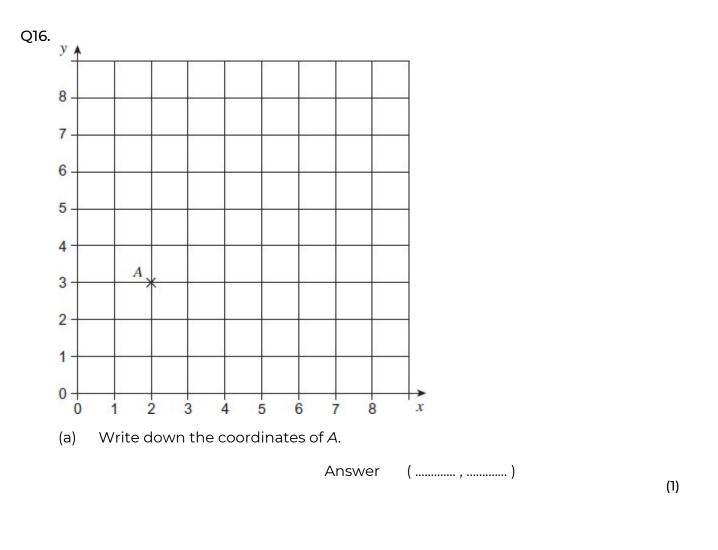
(1)

.....

.....

Q15.

	<i>у</i> ↑	
	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	
(a)	Write down the coordinates of point <i>A</i> . Answer (,)	(1)
(b)	Plot the point (–3, –1) on the grid. Label it <i>B</i> .	(1)
(c)	 Point C has the same x-coordinate as point A the same y-coordinate as point B. Write down the coordinates of point C.	
	Answer (,)	(1) (Total 3 marks)



(b) Plot the point *B*(8, 3) on the grid.

(1) (Total 2 marks)

Q17.A, BandC are plotted on this centimetre grid.

