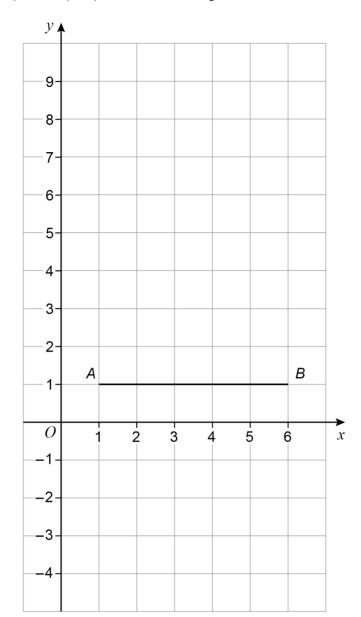
**1** A line joins A (1, 1) and B (6, 1) on a centimetre grid.



P is a point on the line AB such that

 $\boldsymbol{C}$  is a point such that

angle APC is  $90^{\circ}$ 

and

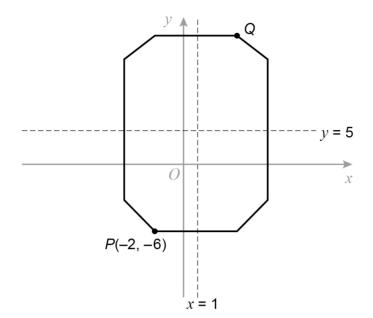
PC = 4 cm

Write down the coordinates of the two possible points for  ${\it C}$ .

[3 marks]

Answer ( \_\_\_\_\_, , \_\_\_\_) and ( \_\_\_\_, , \_\_\_\_)

**2** The diagram shows an octagon.



Not drawn accurately

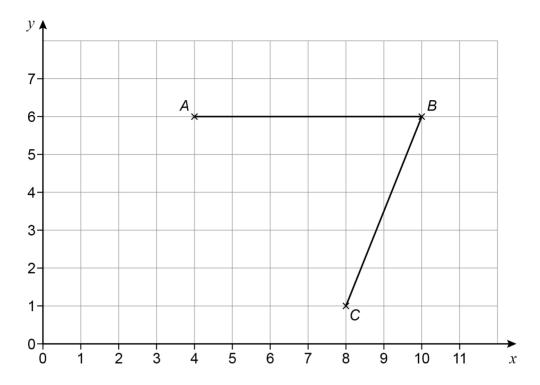
x = 1 and y = 5 are lines of symmetry.

Work out the coordinates of point Q.

	[2 marks]

Answer ( \_\_\_\_\_, , \_\_\_\_)

3 Lines AB and BC are shown.



**3** (a) Write down the coordinates of *C*.

[1 mark]

Answer ( \_\_\_\_\_\_, \_\_\_\_)

**3 (b)** Write down the coordinates of the midpoint of *AB*.

[1 mark]

Answer ( \_\_\_\_\_, , \_\_\_\_)

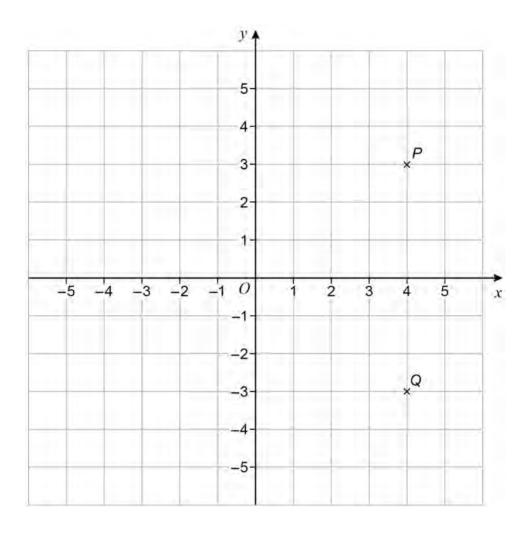
3	(c)	D is the point on the grid that makes ABCD a parallelogram.	
		Work out the coordinates of <i>D</i> .	[1 mark]
		Answer (, ,)	
3	(d)	Write down the equation of the line passing through A and B.	[1 mark]
		Answer	

4	(a)	Write down the coordinates of the <i>y</i> -intercept of the line	y = 3x + 8
	` '		,

[1 mark]

Answer ( \_\_\_\_\_ , \_\_\_\_ )

**5** Points *P* and *Q* are shown on the grid.



**5** (a) Write down the coordinates of *P*.

[1 mark]

Answer (\_\_\_\_\_, , \_\_\_\_)

**5 (b)** Angle *PQR* is a right angle.

Work out possible coordinates for *R*.

[1 mark]

Answer (\_\_\_\_\_\_ , \_\_\_\_

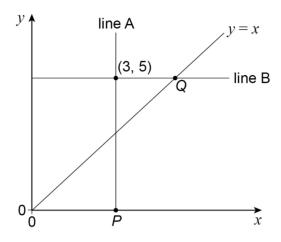
6 The sketch shows

the line y = x

line A, which is vertical

line B, which is horizontal.

The point (3, 5) is on both line A and line B.



Write down the coordinates of *P* and *Q*.

[2 marks]

P ( \_\_\_\_\_, , \_\_\_\_\_) Q ( \_\_\_\_, , \_\_\_\_

7 The equation of a line is y = 3x - 6

Circle the coordinates of the *y*-intercept.

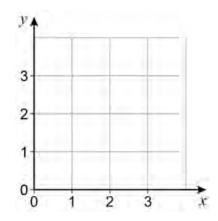
[1 mark]

$$(0, -6)$$

8

P and Q are points.	
The <i>x</i> -coordinate of Q is 4 <b>more</b> than the <i>x</i> -coordinate of P.	
The <i>y</i> -coordinate of Q is 5 <b>less</b> than the <i>y</i> -coordinate of <i>P</i> .	
Work out the gradient of the straight line through <i>P</i> and <i>Q</i> .	
work out the gradient of the straight line through P and Q.	[2 ma
	-
Answer	_

**9** (a) Here is a different grid.

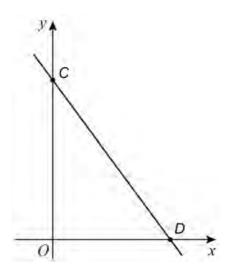


There are **four** points on this grid that each have both coordinates that are whole numbers and x-coordinate + y-coordinate = 3

Plot the four points on the grid.

[2 marks]

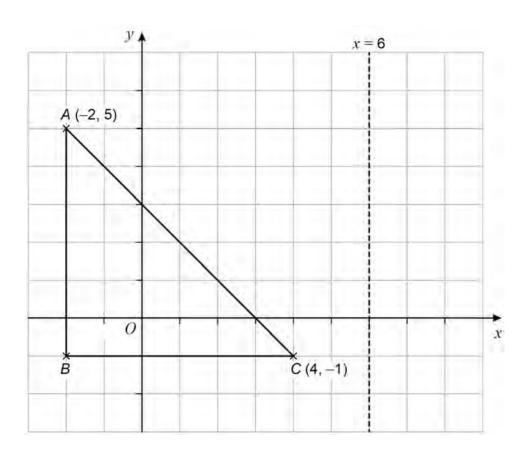
10 (a) Here is a sketch of the graph y = -2x + 6



Complete the coordinates of C and D.

[2 marks]

11



<b>11 (a)</b> Work out the coordinates of	f <i>B</i> .
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[1 mark]

Answer ( \_\_\_\_\_\_ , \_\_\_\_ )

**11 (b)** Point C is reflected in the line x = 6 to point D.

Work out the coordinates of D.

[1 mark]

Answer ( \_\_\_\_\_ , \_\_\_\_ )