

Plotting Straight Line Graphs and finding Gradients

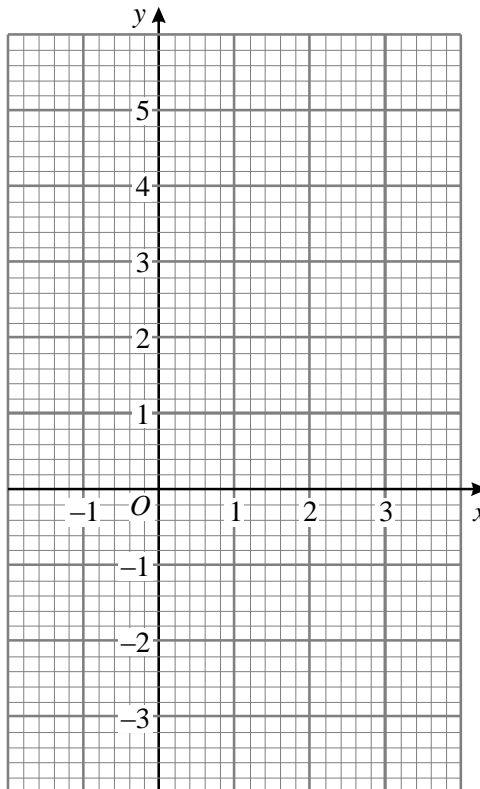
1. (a) Complete this table of values for $y = 2x - 1$

x	-1	0	1	2	3
y	-3		1		5

.....

(1)

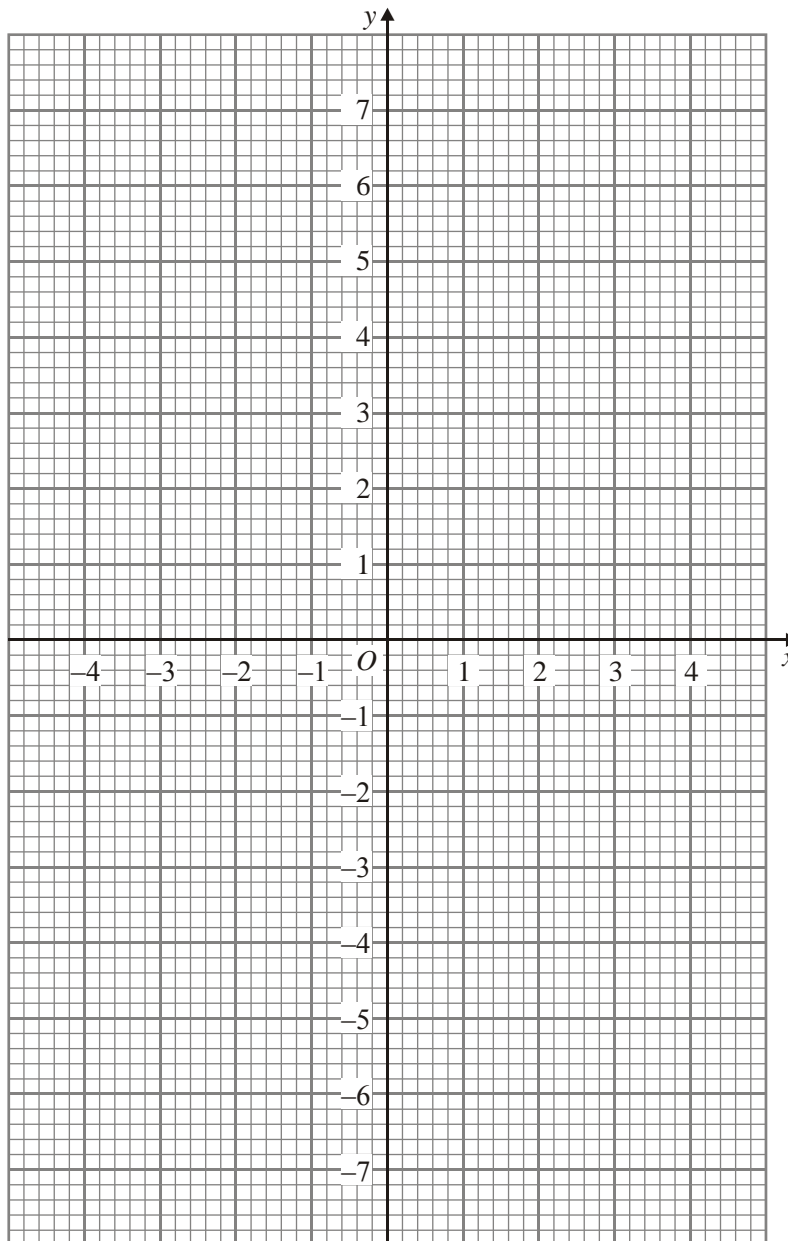
(b) On the grid draw the graph of $y = 2x - 1$ for values of x from -1 to $+3$.



(2)
(Total 3 marks)

2. (a) On the grid below draw and label the lines $y = -4$ and $y = 2x + 1$

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(4)

- (b) Write down the coordinates of the point where the lines $y = -4$ and $y = 2x + 1$ cross.

Answer (.....,

(1)

(Total 5 marks)

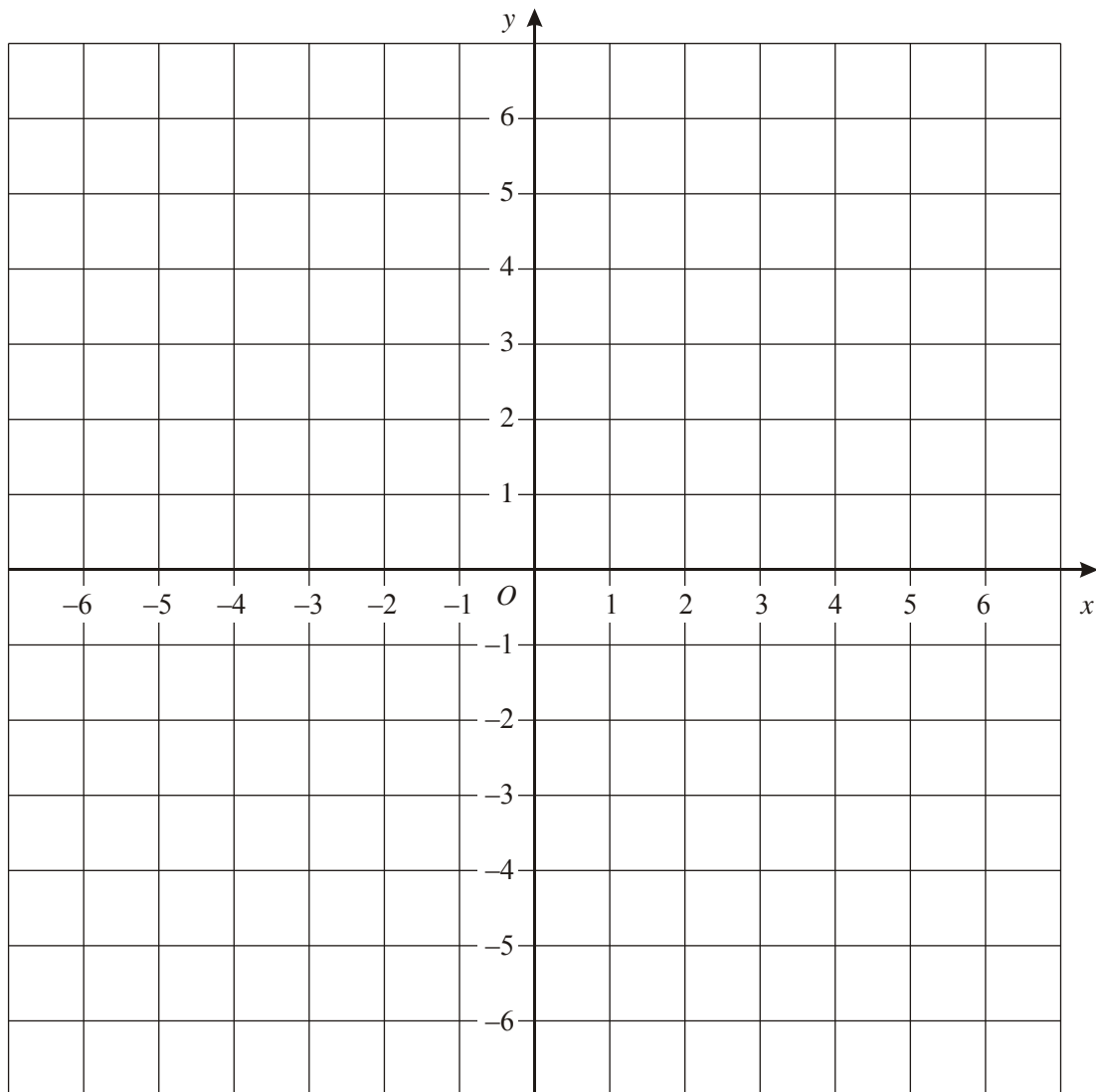
3. The line $y = -3$ crosses the line $y = x - 2$ at the point P .
What are the coordinates of P ?
You may use the grid below if you wish.

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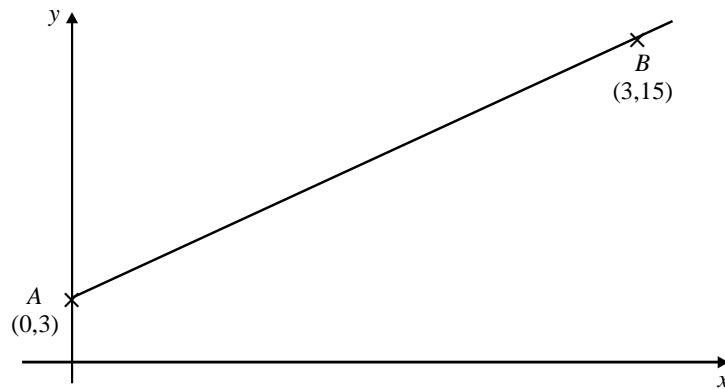
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Answer (.....,)
(Total 3 marks)

4. The diagram shows the points $A(0,3)$ and $B(3,15)$.



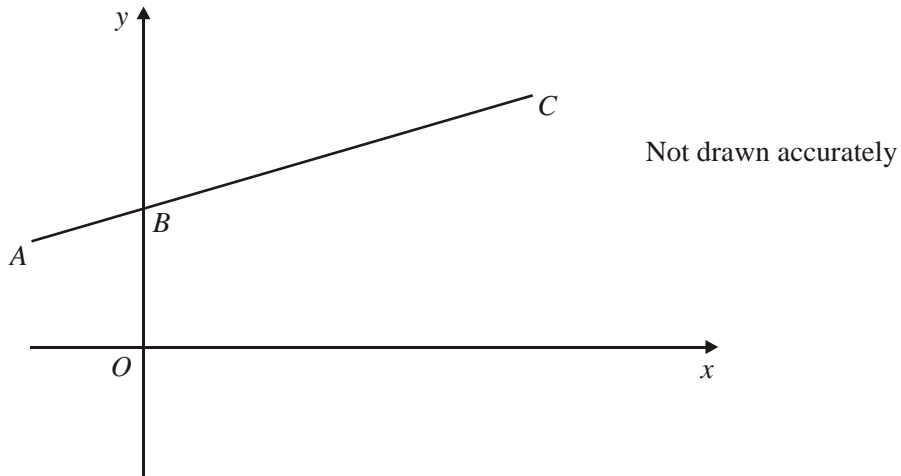
Find the gradient of the line AB .

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Answer

(Total 2 marks)

5. The diagram shows the points $A(-2, 2)$, $B(0, 3)$ and $C(8, 7)$.



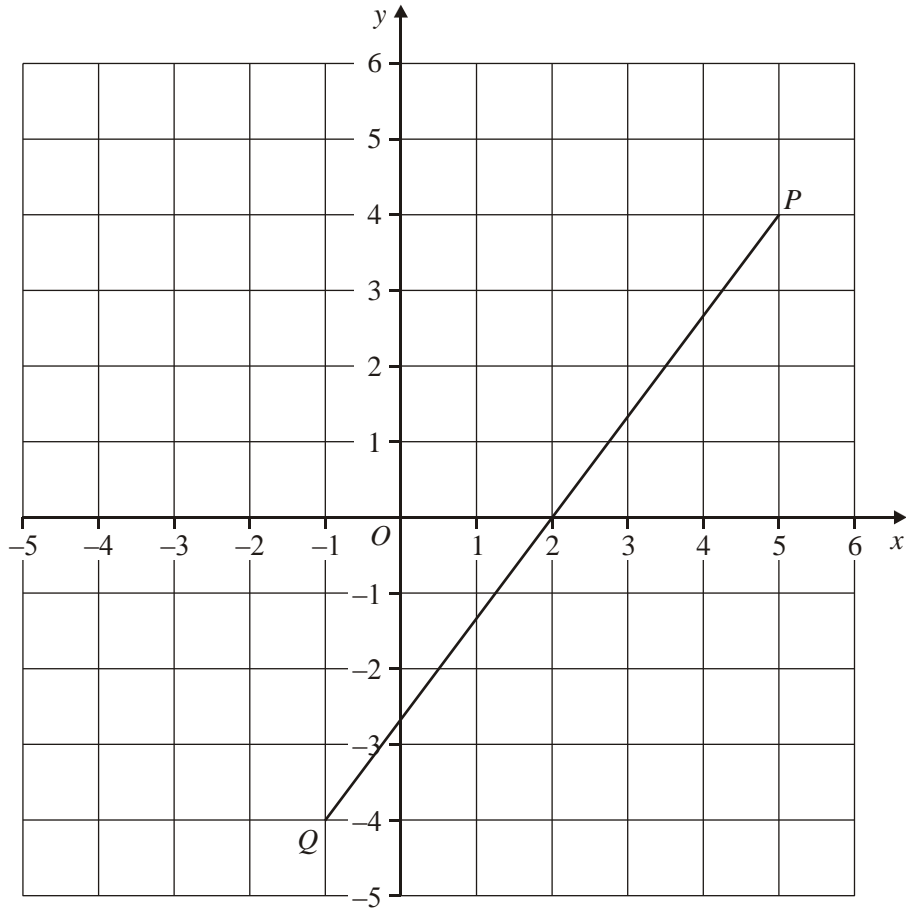
Find the gradient of the straight line which passes through A , B and C .

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Answer $y =$

(Total 2 marks)

6. The line PQ is shown on the grid.



Find the gradient of the line segment PQ .

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Answer

(2)

7. Find the gradient of the line through $(0, -2)$ and $(4, 18)$.

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Answer

(Total 2 marks)