

Drawing Quadratics

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Examples



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Workout

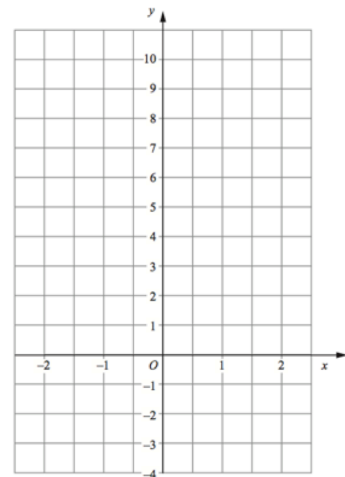
*There are templates for questions 1-13 at the end of this exercise

Question 1:

(a) Complete the table of values for $y = x^2$

x	-2	-1	0	1	2
y		1			4

(b) On the grid, draw the graph of $y = x^2$ for the values of x from -2 to 2

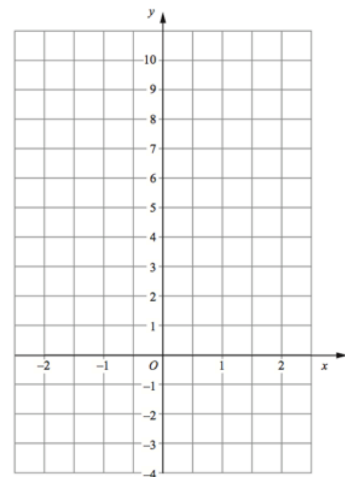


Question 2:

(a) Complete the table of values for $y = x^2 + 3$

x	-2	-1	0	1	2
y	7		3	4	

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

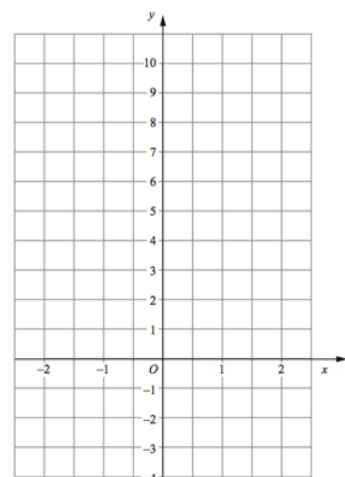


Question 3:

(a) Complete the table of values for $y = x^2 - 2$

x	-2	-1	0	1	2
y					

(b) On the grid, draw the graph of $y = x^2 - 2$ for the values of x from -2 to 2

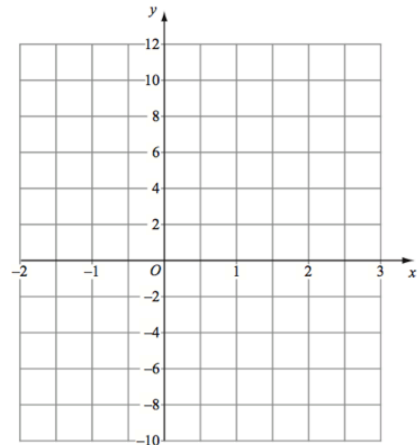


Question 4:

(a) Complete the table of values for $y = x^2 + x$

x	-2	-1	0	1	2	3
y	2			2		12

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

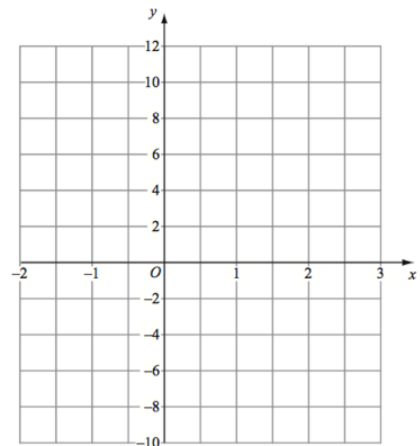


Question 5:

(a) Complete the table of values for $y = x^2 - 2x$

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

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

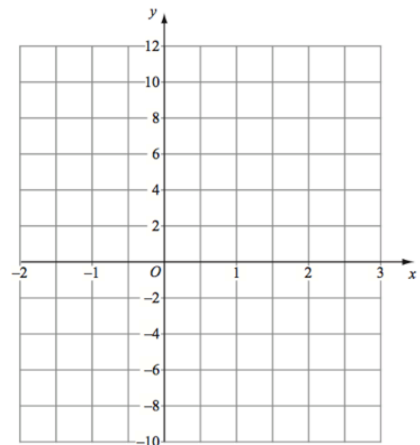


Question 6:

(a) Complete the table of values for $y = x^2 + x - 4$

x	-2	-1	0	1	2	3
y						

(b) On the grid, draw the graph of $y = x^2 + x - 4$ for the values of x from -2 to 3

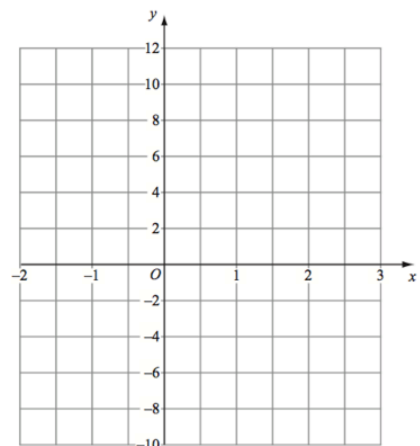


Question 7:

(a) Complete the table of values for $y = x^2 - 3x + 2$

x	-2	-1	0	1	2	3
y	12				0	

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

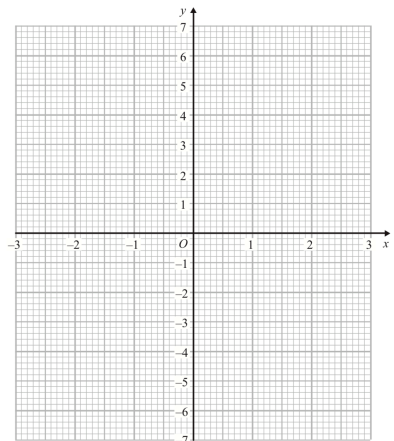


Question 8:

(a) Complete the table of values for $y = x^2 - x - 5$

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

(b) On the grid, draw the graph of $y = x^2 - x - 5$ for the values of x from -3 to 3

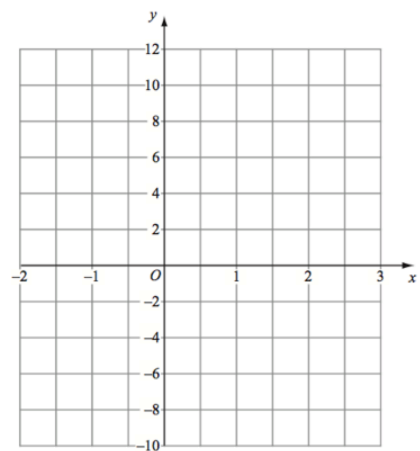


Question 9:

(a) Complete the table of values for $y = x^2 + 3x - 6$

x	-2	-1	0	1	2	3
y						

(b) On the grid, draw the graph of $y = x^2 + 3x - 6$ for the values of x from -2 to 3

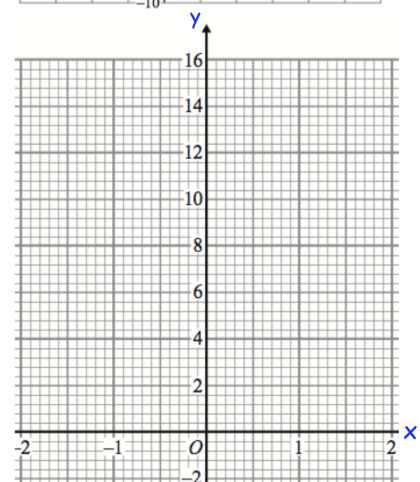


Question 10:

(a) Complete the table of values for $y = 2x^2$

x	-2	-1	0	1	2
y					

(b) On the grid, draw the graph of $y = 2x^2$ for the values of x from -2 to 2

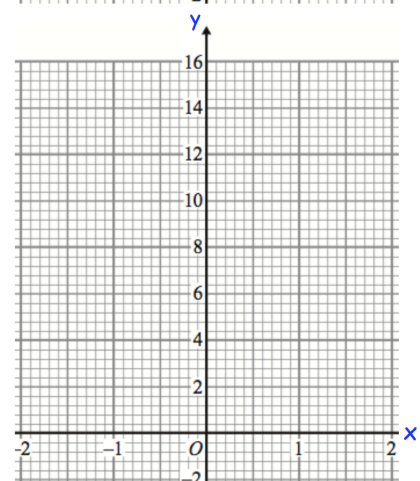


Question 11:

(a) Complete the table of values for $y = 3x^2$

x	-2	-1	0	1	2
y					

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



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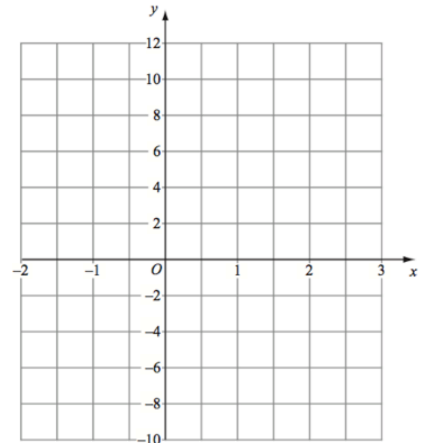
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Question 12:

(a) Complete the table of values for $y = 2x^2 - x - 3$

x	-2	-1	0	1	2	3
y						

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

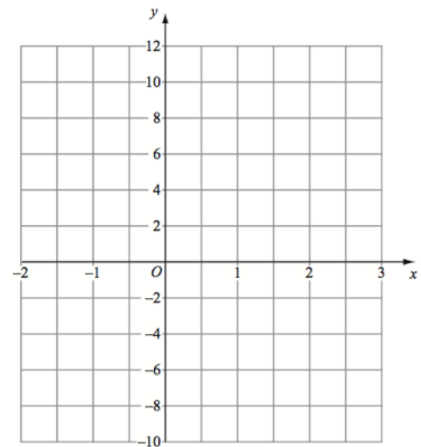


Question 13:

(a) Complete the table of values for $y = 8 - x^2$

x	-2	-1	0	1	2	3
y						

(b) On the grid, draw the graph of $y = 8 - x^2$ for the values of x from -2 to 3



Question 14: Draw the following graphs for the values of x from -3 to 3
Use suitable grids for each.

(a) $y = x^2 + 4x - 10$

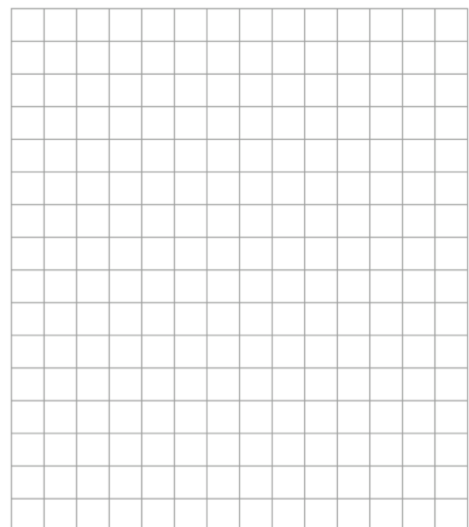
(b) $y = x^2 - 5x + 1$

(c) $y = \frac{1}{2}x^2$

(d) $y = 2x^2 - 3x + 1$

(e) $y = 2x - x^2$

(f) $y = -x^2 + 2x - 3$



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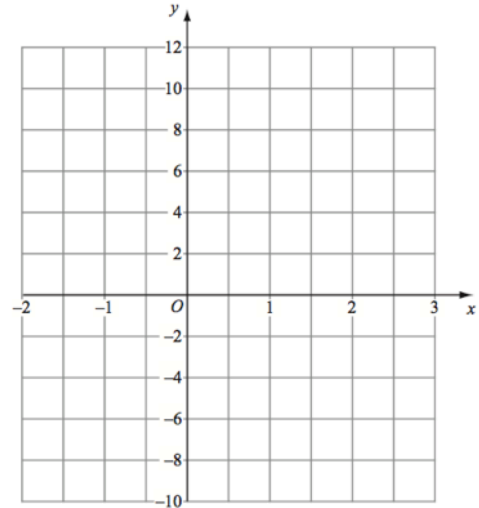
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Apply

*There are templates for questions 1 at the end of this exercise

Question 1:

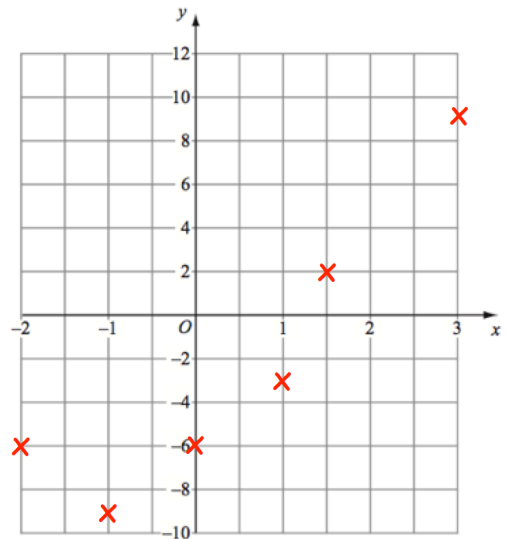
- (a) Complete a table of values for $y = (x - 1)(x - 2)$ for the values of x from -2 to 3
- (b) Complete a table of values for $y = (3 - x)(x + 1)$ for the values of x from -2 to 3
- (c) Draw both graphs on the grid for the values of x from -2 to 3



Question 2: Max is drawing the graph of $y = x^2 + 2x - 6$

x	-2	-1	0	1	2	3
y	-6	-9	-6	-3	2	9

- (a) Can you spot any mistakes?
- (b) Draw a correct graph for $y = x^2 + 2x - 6$



Answers



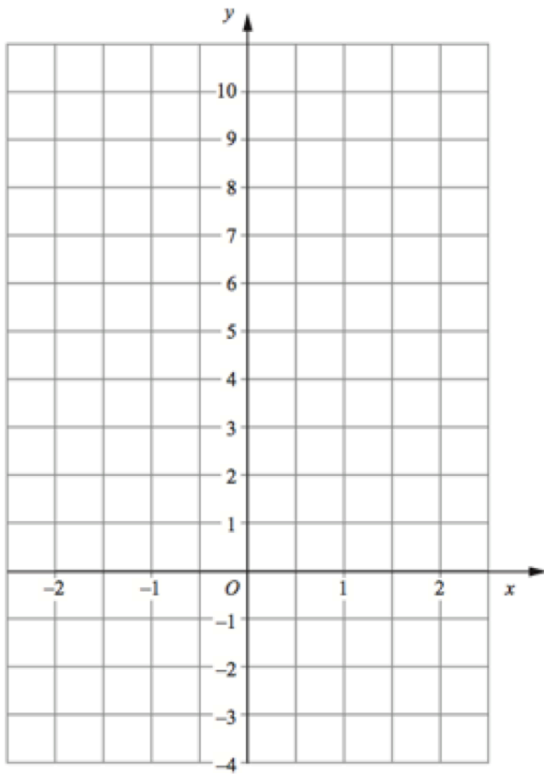
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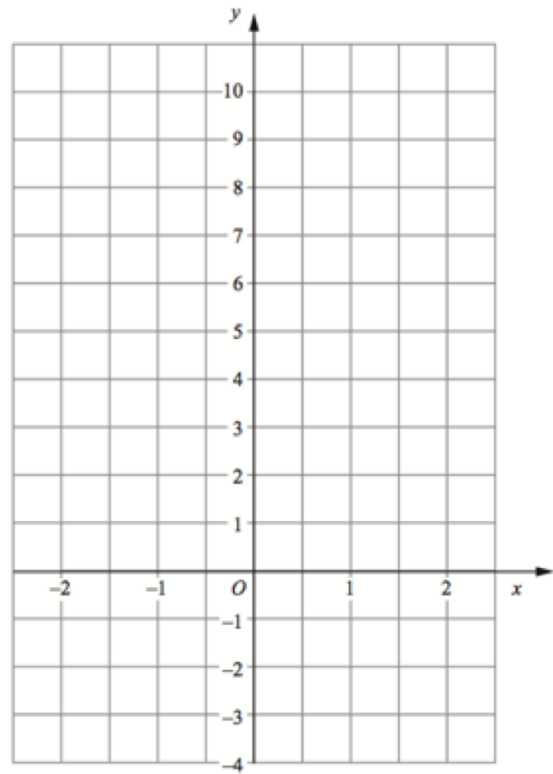
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Templates

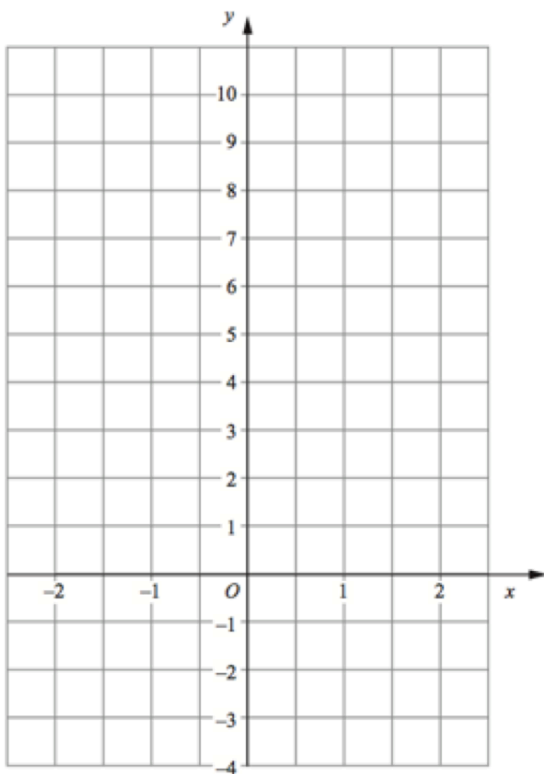
Question 1



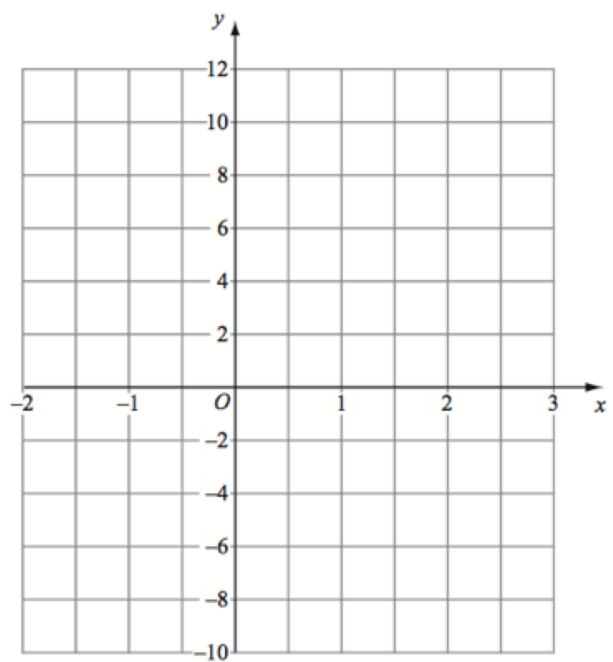
Question 2



Question 3



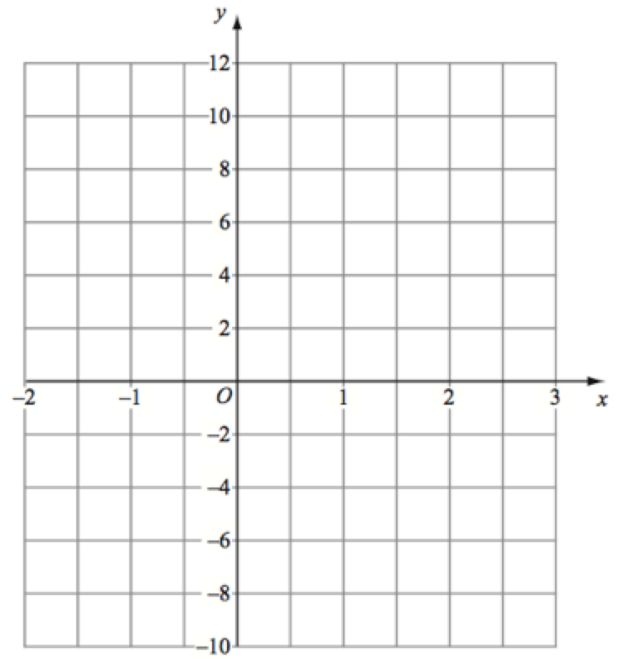
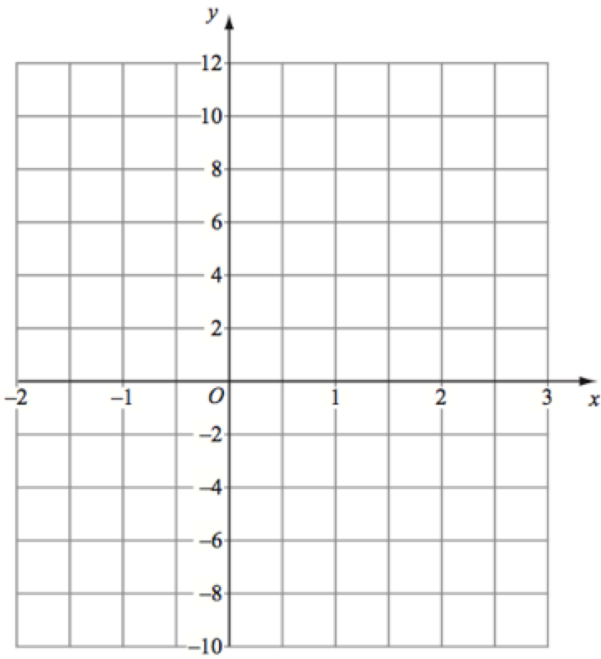
Question 4



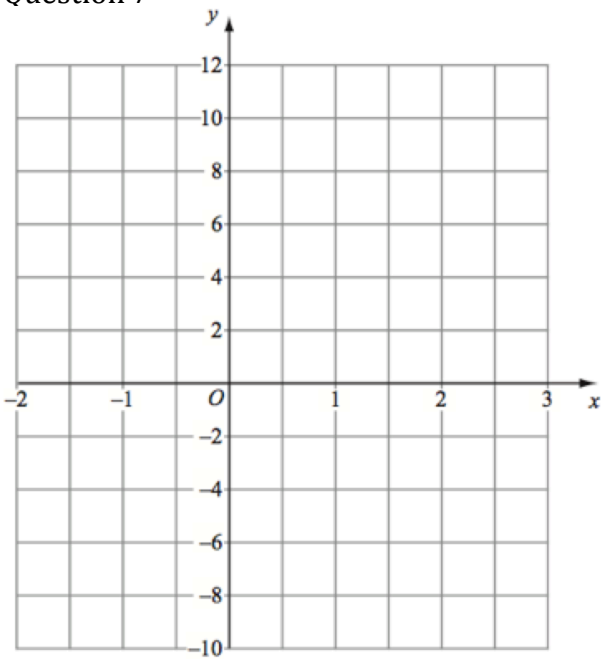
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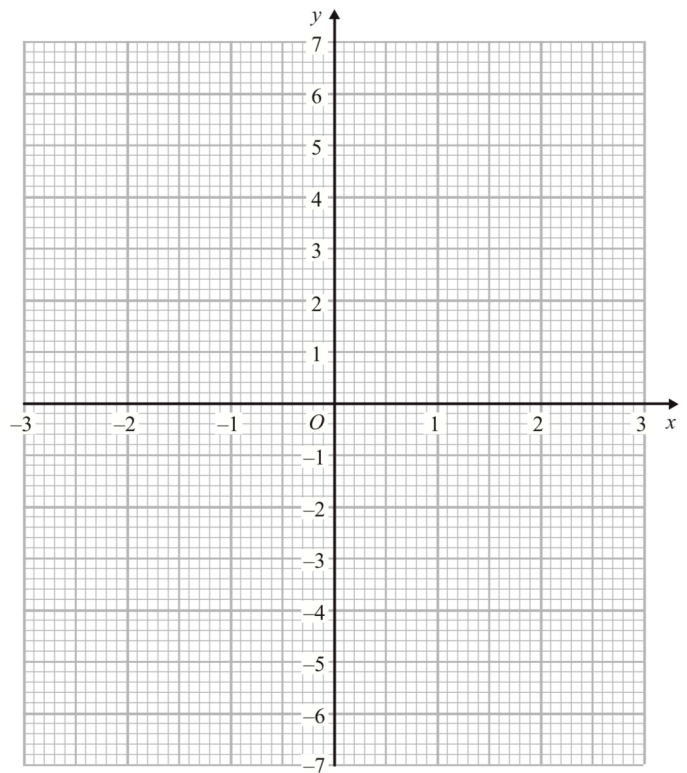
Question 6



Question 7



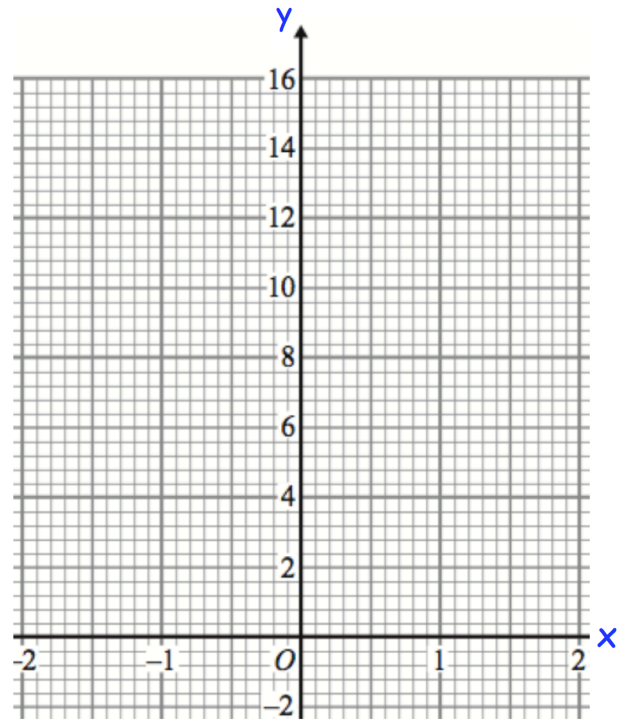
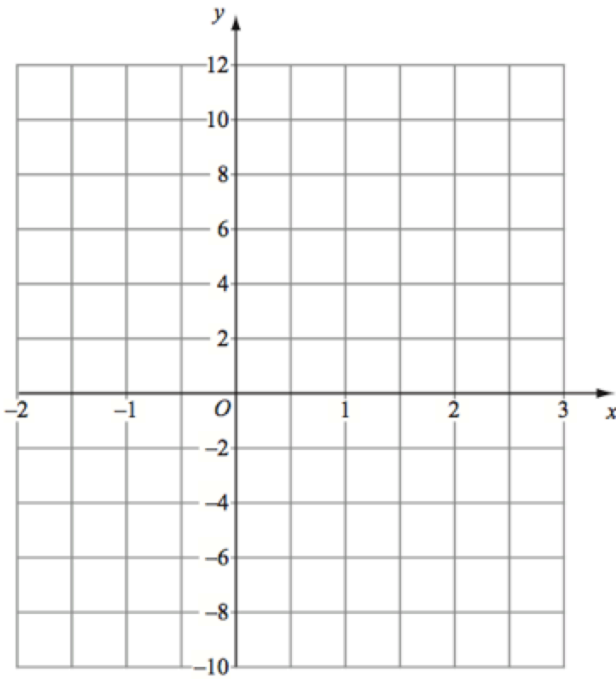
Question 8



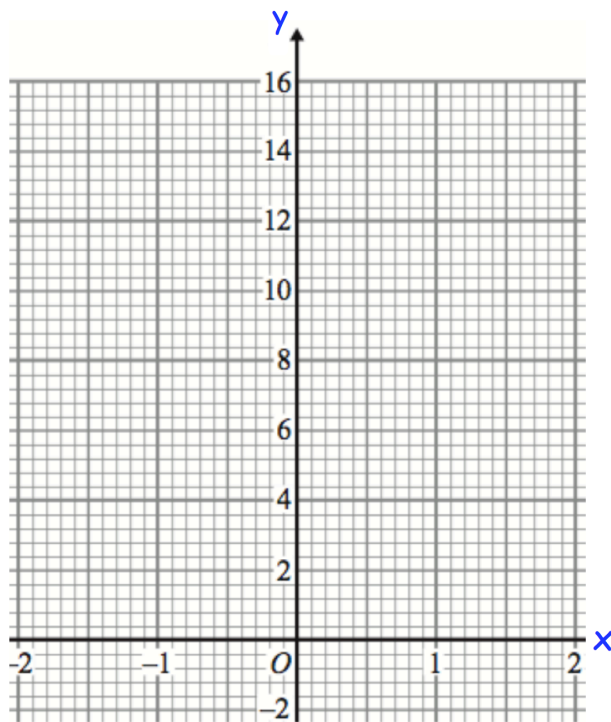
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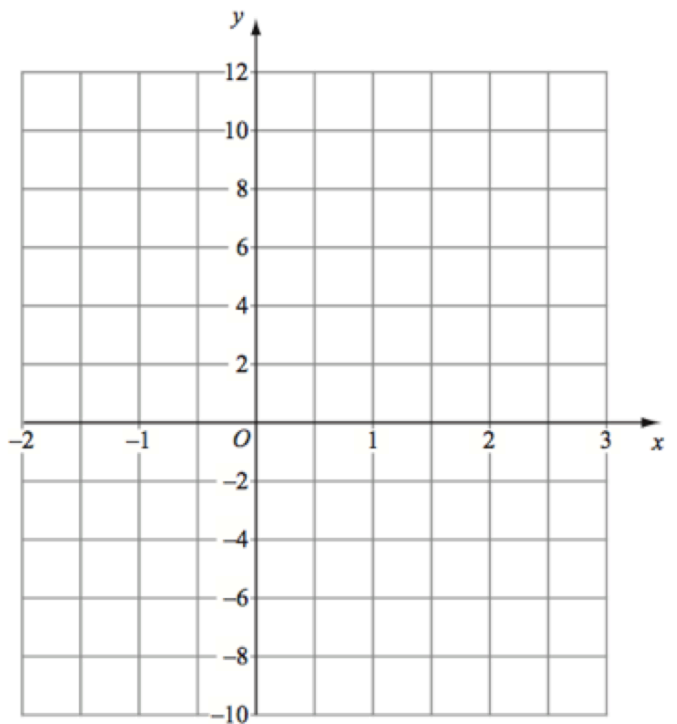
Question 10



Question 11



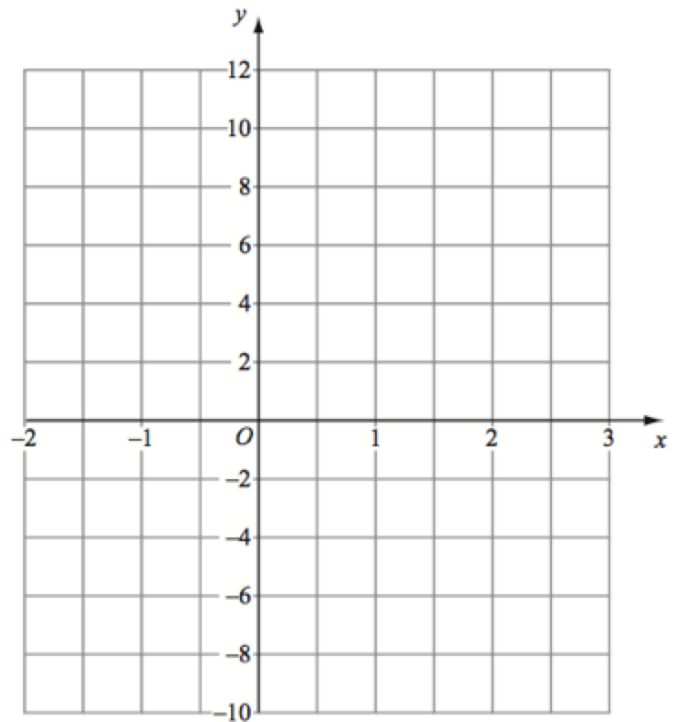
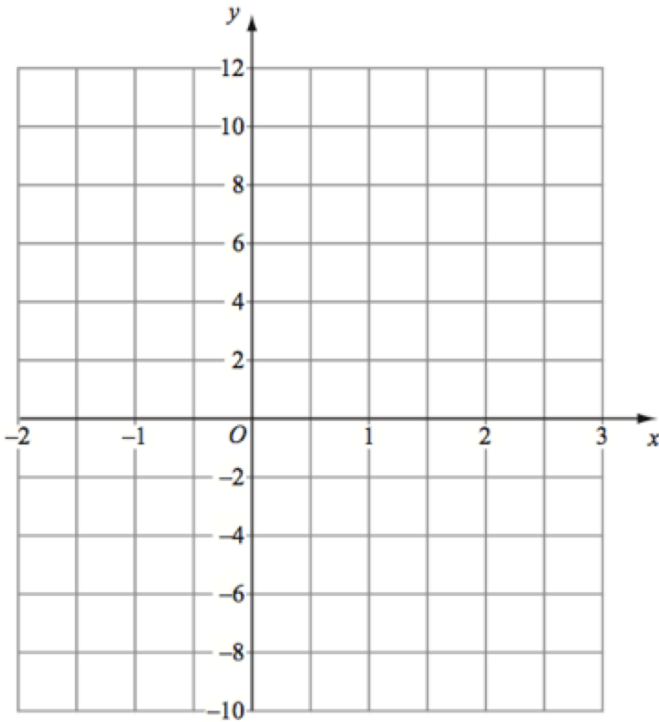
Question 12



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Apply Question 1



Apply Question 2

