Foundation Homework 11 : Algebra

1. Here is an arithmetic sequence.

$2, 4, 6, 8, 10, \ldots, \ldots$ 12,14

(i) Write down the next two terms

Add 2

.....

(ii) What is the rule

2n

.....

(iii) What is the Nth term

(3 marks)

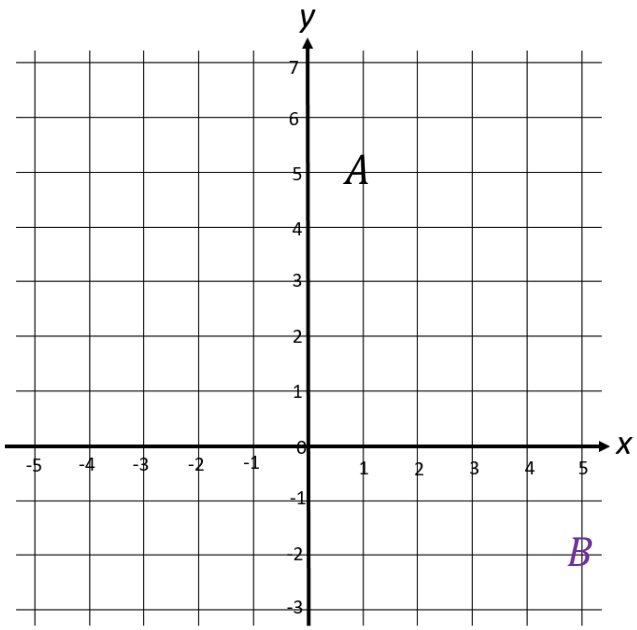
2.

(a) Write down the coordinate A

(1 , 5)

.....

(b) Plot the coordinate B (5 , -2)



(2 marks)

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3. Simplify $a + a + a + a$

4a

.....

(1 mark)

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4. Simplify $5 \times e \times 4 \times f$

20ef

.....

(1 mark)

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5. $a = 5 \quad b = 3 \quad c = 2$

Work out the value of $3a + 2b$

21

.....

(2 marks)

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6. Simplify $m^2 \times m^5$

m^7

.....

(1 mark)

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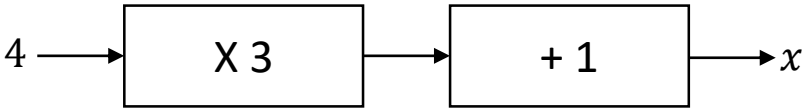
7. Calculate



$x =$ 13

(1 mark)

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8. Simplify $y \times y$

y^2

(1 mark)

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9. Expand $3(x + 2)$

$3x + 6$

(1 mark)

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10. Factorise $4a + 8$

$4(a + 2)$

(2 marks)

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11. Solve $x + 6 = 10$

$x =$ 4

(1 mark)

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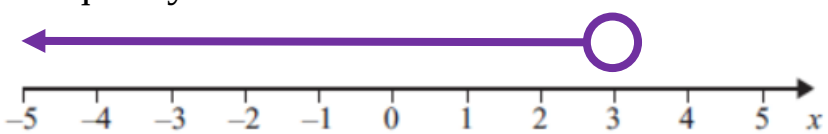
12. Show the inequality $x < 3$ on the number line below.



(1 mark)

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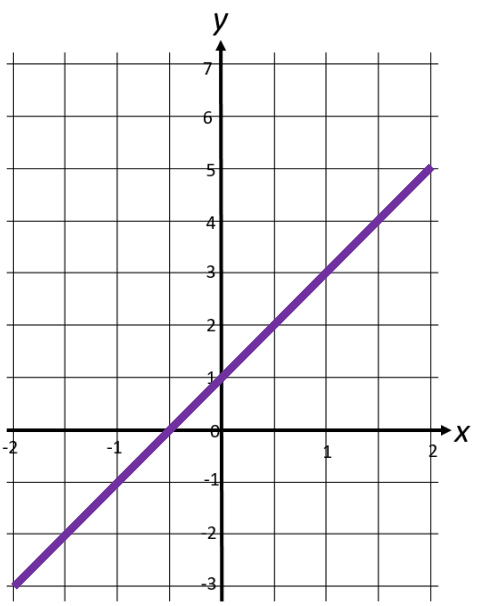
13. Complete the table of values for $y = 2x + 1$

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

On the grid draw the graph of $y = 2x + 1$



(4 marks)

Score =