Foundation Homework 12 : Algebra

1. Here is an arithmetic sequence.

$$6 , 12 , 18 , 24 , 30 , \ldots , \ldots$$

36, 42

(i) Write down the next two terms

Add 6

(ii) What is the rule

6n

(iii) What is the Nth term

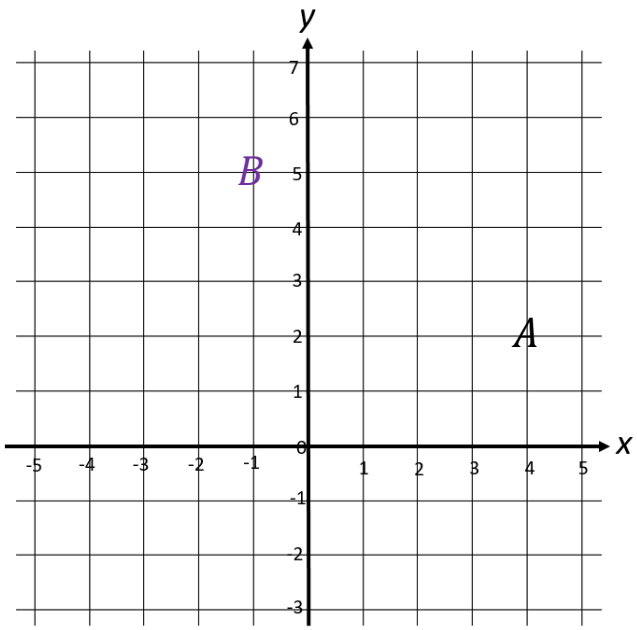
(3 marks)

2.

(a) Write down the coordinate A

(4 , 2)

(b) Plot the coordinate B (-1 , 5)



(2 marks)

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3. Simplify $m + 2m + m + 3m$

$7m$

(1 mark)

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4. Simplify $3 \times y \times 5 \times y$

$15y^2$

(1 mark)

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5. $a = 4 \quad b = 2 \quad c = 5$

Work out the value of $2a + 4b + c^2$

49

(2 marks)

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6. Simplify $w^3 \times w^8$

w^{11}

(1 mark)

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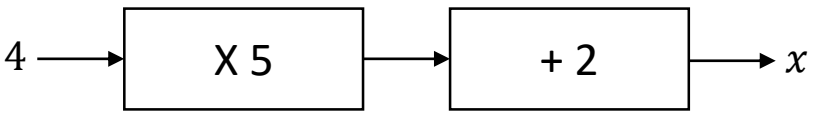
7. Calculate



$x =$ 22

(1 mark)

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8. Simplify $g \times g \times g$

g^3

(1 mark)

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9. Expand $5(x + 1)$

$5x + 5$

(1 mark)

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10. Factorise $6a + 10$

$2(3a + 5)$

(2 marks)

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11. Solve $x - 4 = 13$

$x =$ 17

(1 mark)

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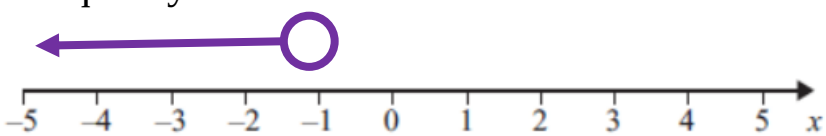
12. Show the inequality $x < -1$ on the number line below.



(1 mark)

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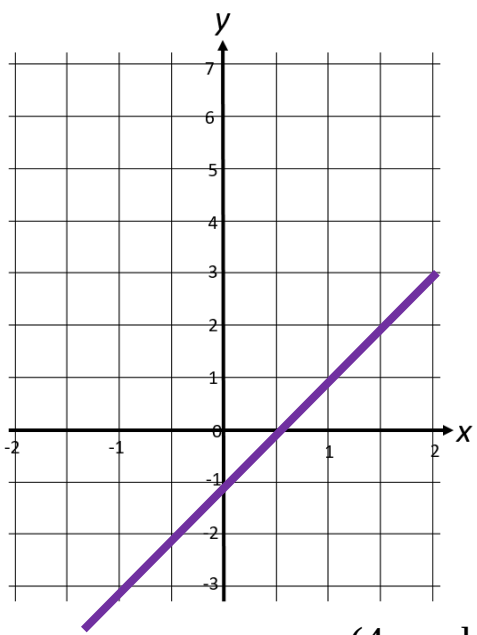
13. Complete the table of values for $y = 2x - 1$

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

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



(4 marks)

Score =