Foundation Homework 13 : Algebra

1. Here is an arithmetic sequence.

$4 , 7 , 10 , 13 , 16 , \ldots , \ldots$ 19,22

(i) Write down the next two terms

(ii) What is the rule

(iii) What is the Nth term

Add 3

$3n + 1$

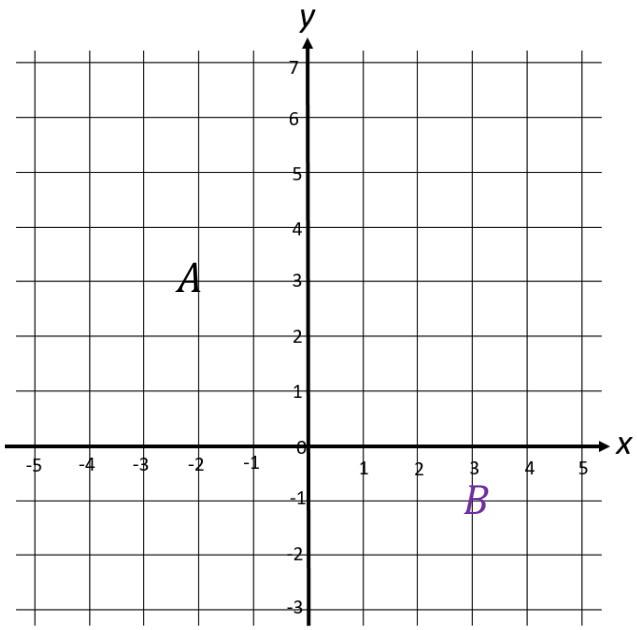
(3 marks)

2.

(a) Write down the coordinate A

$(-2 , 3)$

(b) Plot the coordinate (3, -1)



(2 marks)

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3. Simplify $4e + e + 2e - 3e$

$4e$

(1 mark)

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4. Simplify $6 \times e \times f \times 4 \times g$

$24efg$

(1 mark)

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5. $a = 3 \quad b = 4 \quad c = 5$

Work out the value of $a^2 + 2b - 3c$

2

(2 marks)

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6. Simplify $2a^4 \times 3a^5$

$6a^9$

(1 mark)

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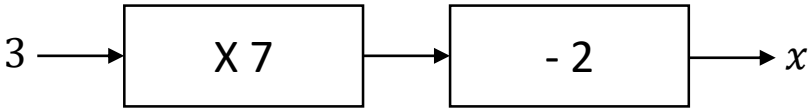
7. Calculate



$x =$ 19

(1 mark)

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8. Simplify $h \times h \times h \times h \times h$

h^5

(1 mark)

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9. Expand $5(x - 3)$

$5x - 15$

(1 mark)

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10. Factorise $12a + 6$

$6(2a + 1)$

(2 marks)

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11. Solve $4x = 24$

$x =$ 6

(1 mark)

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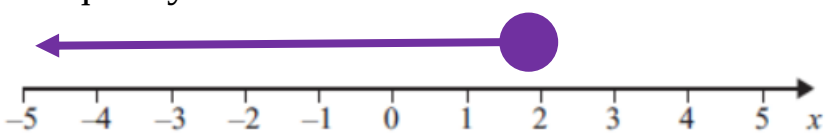
12. Show the inequality $x \leq 2$ on the number line below.



(1 mark)

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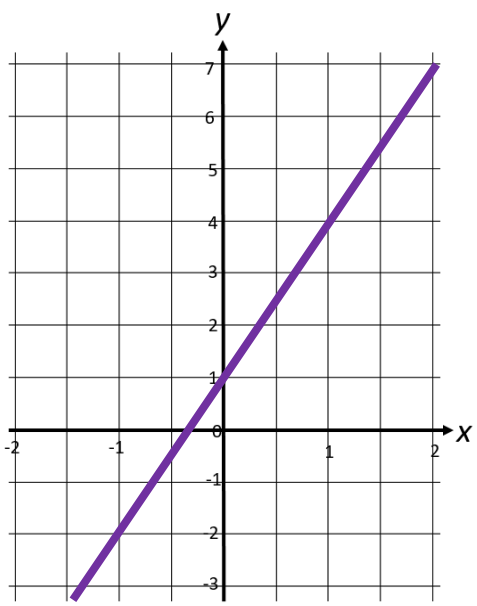
13. Complete the table of values for $y = 3x + 1$

x	-2	-1	0	1	2
y	-5	-2	1	4	7

On the grid draw the graph of $y = 3x + 1$



(4 marks)

Score =