Foundation Homework 15 : Algebra

1. Here is an arithmetic sequence.

$2 , 5 , 8 , 11 , 14 , \ldots , \ldots$ 17, 20

(i) Write down the next two terms

(ii) What is the Nth term $3n - 1$

(iii) What is the 10th term in the sequence 29

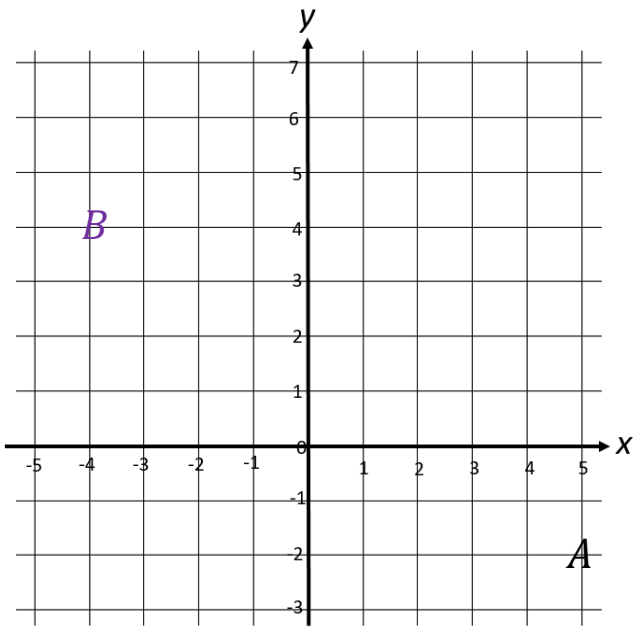
(5 marks)

2.

(a) Write down the coordinate A

$(5 , -2)$

(b) Plot the coordinate (-4 , 6)



(2 marks)

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3. Simplify $3e + 5f - e + 6f$

$2e + 11f$

(1 mark)

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4. Simplify $2 \times n \times n \times 7 \times n$

$14n^3$

(1 mark)

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5. $a = 10 \quad b = 1 \quad c = -2$

Work out the value of $a^2 + 5c$

90

(2 marks)

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6. Simplify $\dfrac{g^{15}}{g^5}$

g^{10}

(1 mark)

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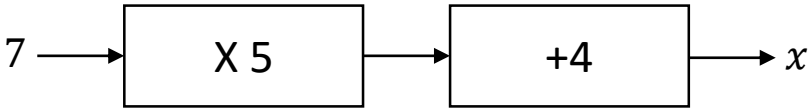
7. Calculate



$x =$ 39

(1 mark)

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8. Simplify $y \times y \times x \times y$

xy^3

(1 mark)

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9. Expand $4(2x + 5)$

$8x + 20$

(1 mark)

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10. Factorise $20x + 15$

$5(4a + 3)$

(2 marks)

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11. Solve $3x + 1 = 13$

$x =$ 4

(2 marks)

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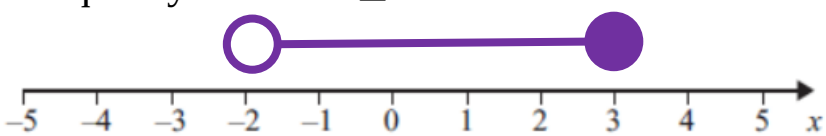
12. Show the inequality $-2 < x \leq 3$ on the number line below.



(2 marks)

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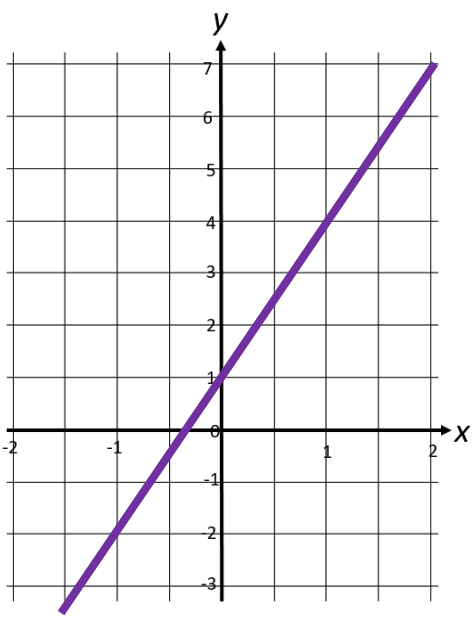
13. Complete the table of values for $y = 2x + 3$

x	-2	-1	0	1	2
y	-1	1	3	5	7

On the grid draw the graph of $y = 2x + 3$



(4 marks)

Score =