Foundation Homework 16 : Algebra

1. Here is an arithmetic sequence.

$5 , 9 , 13 , 17 , 21 , \ldots , \ldots$ 25,29

(i) Write down the next two terms

(ii) What is the Nth term $4n + 1$

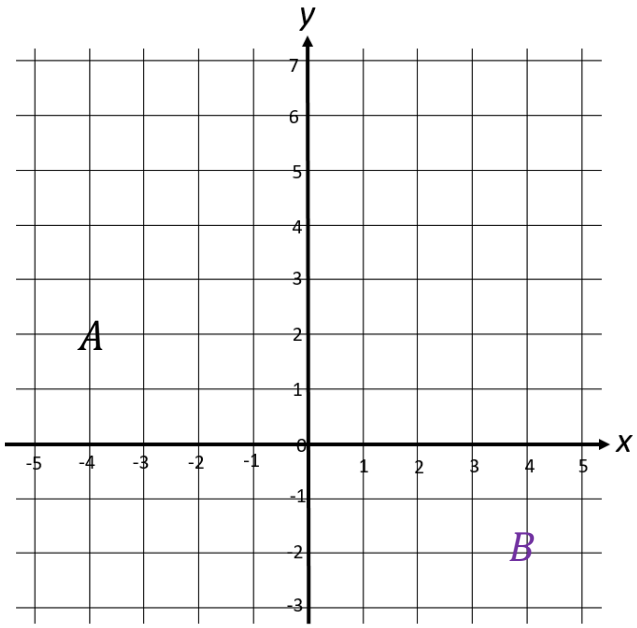
(iii) What is the 20th term in the sequence 81

(5 marks)

2.

(a) Write down the coordinate A $(-4 , 2)$

(b) Plot the coordinate (4 , -2)



(2 marks)

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3. Simplify $2a + 3a^2 + 4a + 6a^2$ $6a + 9a^2$

(1 mark)

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4. Simplify $6 \times h \times g \times h \times 5$ $30gh^2$

(1 mark)

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5. $a = 6 \quad b = 3 \quad c = -2$

Work out the value of $5b - 4c$ 38

(2 marks)

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6. Simplify $\dfrac{8w^{12}}{2w^3}$ $4w^9$

(1 mark)

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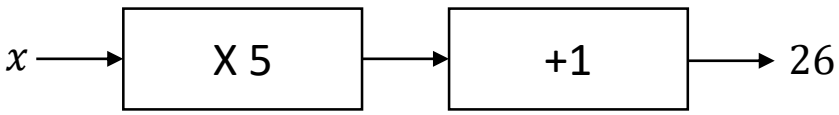
7. Calculate



$x =$ 5

(1 mark)

8. Simplify $m^4 + m^4 + m^4$

$3m^4$

(1 mark)

9. Expand $3(2x - 5)$

$6x - 15$

(1 mark)

10. Factorise $6x - 15$

$3(2x - 5)$

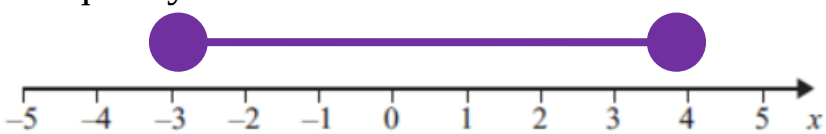
(2 marks)

11. Solve $2x + 3 = 11$

$x =$ 4

(2 marks)

12. Show the inequality $-3 \leq x \leq 4$ on the number line below.

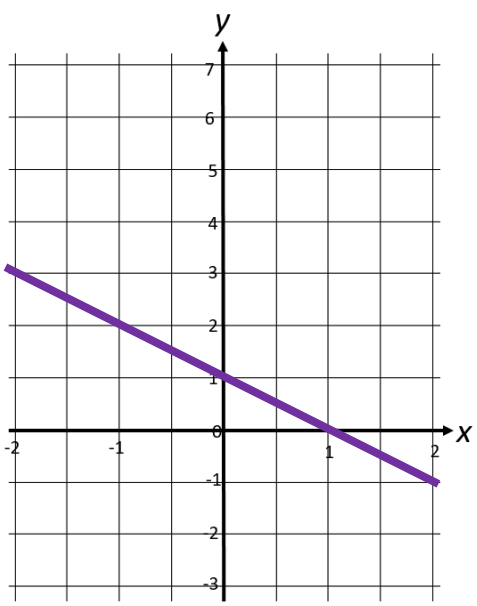


(2 marks)

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

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

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



(4 marks)

Score =