

1. Here is an arithmetic sequence.

$$2, 5, 8, 11, 14, \dots, \dots$$

(i) Write down the next two terms

(ii) What is the Nth term

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

.....

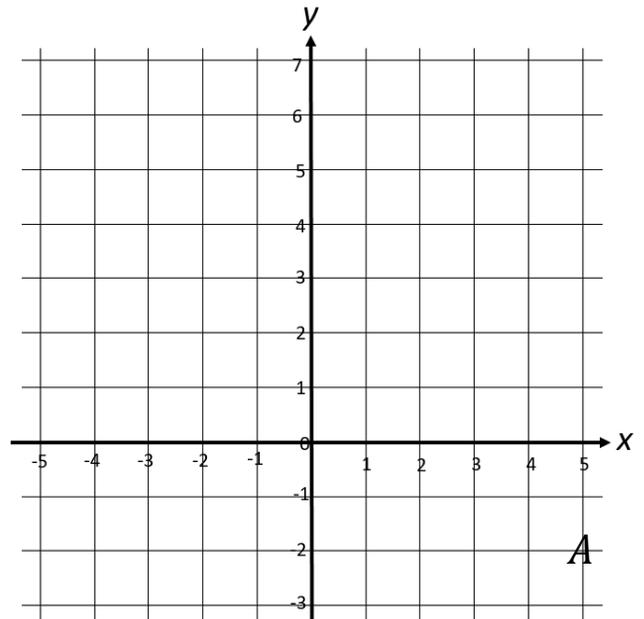
 (5 marks)

2.

(a) Write down the coordinate A

.....

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



(2 marks)

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

.....
 (1 mark)

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

.....
 (1 mark)

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

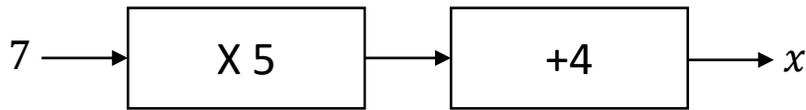
Work out the value of $a^2 + 5c$

.....
 (2 marks)

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

.....
 (1 mark)

7. Calculate



$x = \dots\dots\dots$

(1 mark)

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

$\dots\dots\dots$

(1 mark)

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

$\dots\dots\dots$

(1 mark)

10. Factorise $20x + 15$

$\dots\dots\dots$

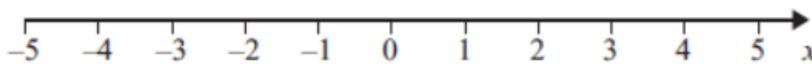
(2 marks)

11. Solve $3x + 1 = 13$

$x = \dots\dots\dots$

(2 marks)

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

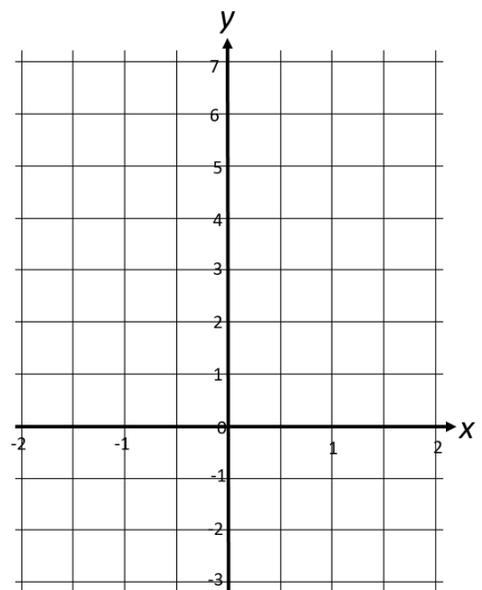


(2 marks)

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

x	-2	-1	0	1	2
y					

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



(4 marks)

Score =