

1. Here is an arithmetic sequence.

$$4, 7, 10, 13, 16, \dots, \dots$$

(i) Write down the next two terms

(ii) What is the rule

(iii) What is the Nth term

.....

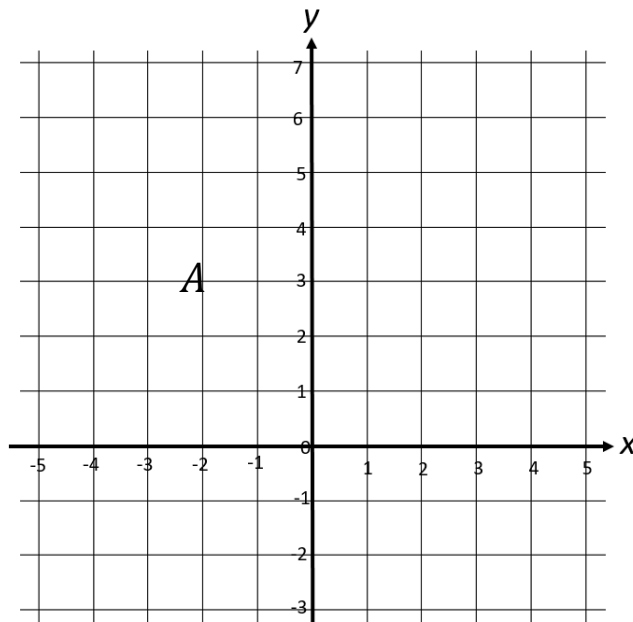
 (3 marks)

2.

(a) Write down the coordinate *A*

.....

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



(2 marks)

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

.....
 (1 mark)

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

.....
 (1 mark)

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

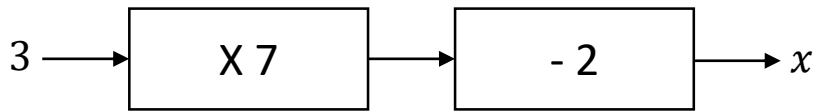
Work out the value of $a^2 + 2b - 3c$

.....
 (2 marks)

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

.....
 (1 mark)

7. Calculate



$x = \dots\dots\dots$

(1 mark)

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

$\dots\dots\dots$

(1 mark)

9. Expand $5(x - 3)$

$\dots\dots\dots$

(1 mark)

10. Factorise $12a + 6$

$\dots\dots\dots$

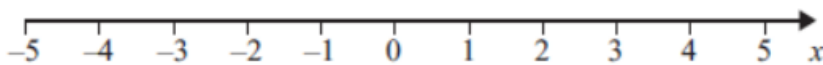
(2 marks)

11. Solve $4x = 24$

$x = \dots\dots\dots$

(1 mark)

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

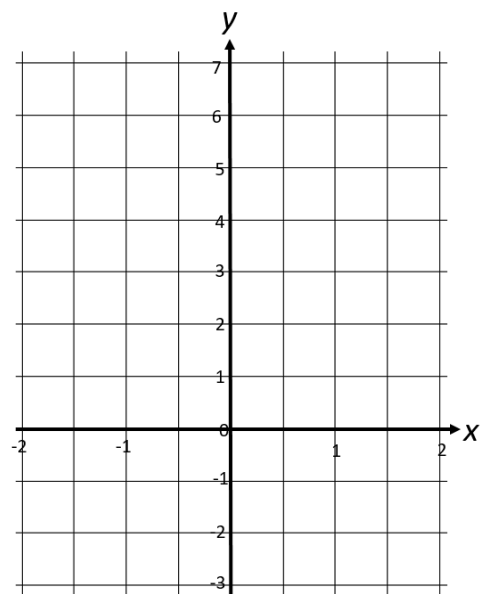


(1 mark)

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

x	-2	-1	0	1	2
y					

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



(4 marks)

Score =