

1. Here is an arithmetic sequence.

$$-1, 1, 3, 5, 7, \dots, \dots$$

(i) Write down the next two terms

(ii) What is the Nth term

(iii) What is the 50th term in the sequence

.....

.....

(5 marks)

2.

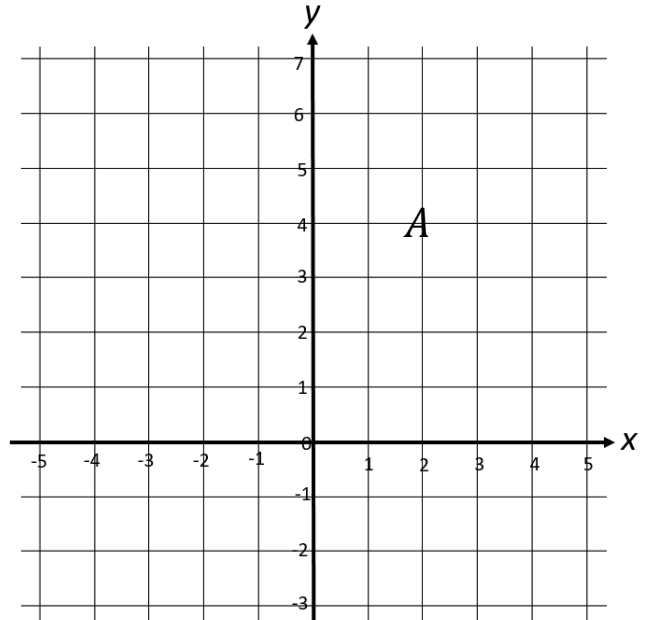
(a) Write down the coordinate A

.....

(b) Plot the coordinate B (-2, 0)

(c) Write down the midpoint of AB

.....



(4 marks)

3. Simplify $5a + 4b + 7 - 2a + 3b + 8$

.....

(2 marks)

4. Simplify $8a \times a \times 3b$

.....

(1 mark)

5. $a = 4$ $b = 0.5$ $c = -1$

Work out the value of $a^2 + 8b - 2c$

.....

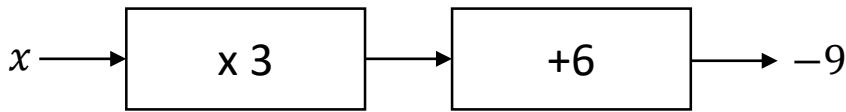
(2 marks)

6. Simplify $(4y^5)^2$

.....

(2 marks)

7. Calculate



$x = \dots\dots\dots$

(1 mark)

8. Simplify $5n^3 + 4n^3 - 3n^3$

$\dots\dots\dots$

(1 mark)

9. Expand $x(2x + 3)$

$\dots\dots\dots$

(1 mark)

10. Factorise $x^2 + 2x$

$\dots\dots\dots$

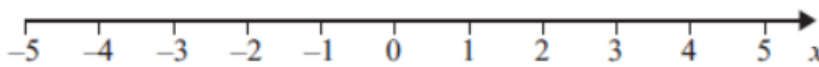
(2 marks)

11. Solve $3x - 2 = 25$

$x = \dots\dots\dots$

(2 marks)

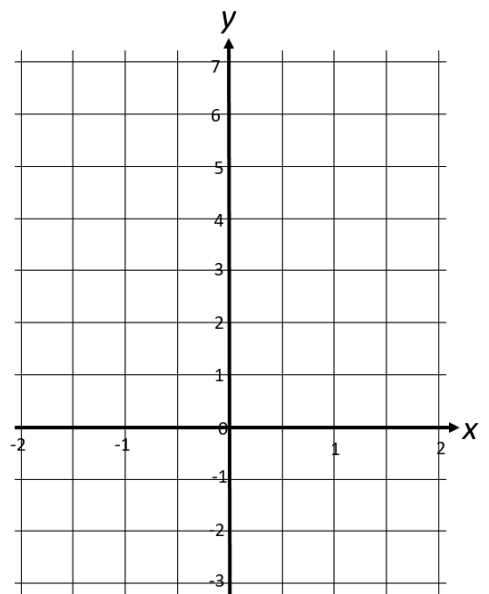
12. Show the inequality $x - 1 \geq 0$ on the number line below.



(2 marks)

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 =