

1. Here is an arithmetic sequence.

$$7, 9, 11, 13, 15, \dots, \dots$$

(i) Write down the next two terms

(ii) What is the Nth term

(iii) What is the 100th term in the sequence

.....

 (5 marks)

2.

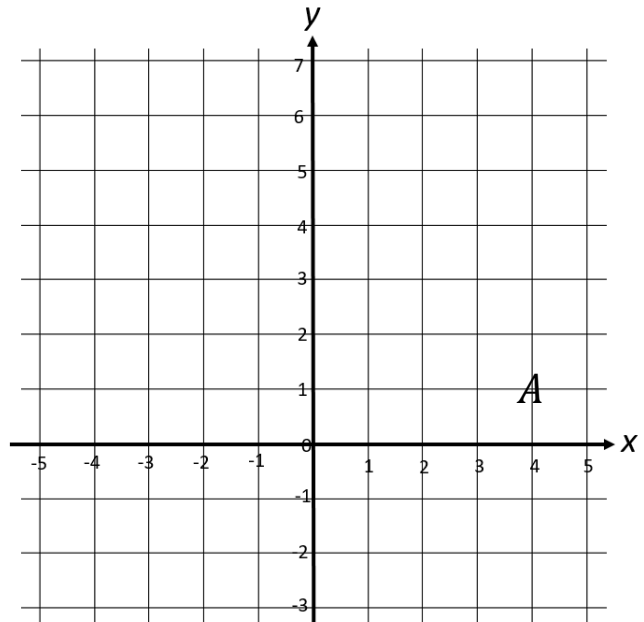
(a) Write down the coordinate A

.....

(b) Plot the coordinate B (-2 , 3)

(c) Write down the midpoint of AB

.....



(4 marks)

3. Simplify $6y + 9y^2 + 3y - 5y^2$

.....
 (1 mark)

4. Simplify $7a \times b \times 2c$

.....
 (1 mark)

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

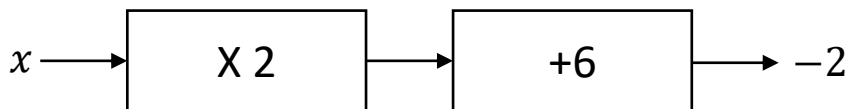
Work out the value of $2a^2 + 5c$

.....
 (2 marks)

6. Simplify $(k^5)^4$

.....
 (1 mark)

7. Calculate



$x = \dots\dots\dots$

(1 mark)

8. Simplify $5b^3 + b^3 - 2b^3$

$\dots\dots\dots$

(1 mark)

9. Expand $x(x - 5)$

$\dots\dots\dots$

(1 mark)

10. Factorise $6x + 16$

$\dots\dots\dots$

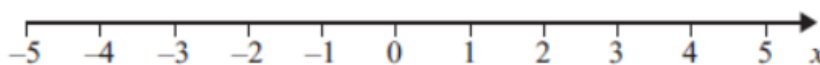
(2 marks)

11. Solve $2x - 3 = 17$

$x = \dots\dots\dots$

(2 marks)

12. Show the inequality $x + 2 < 5$ on the number line below.

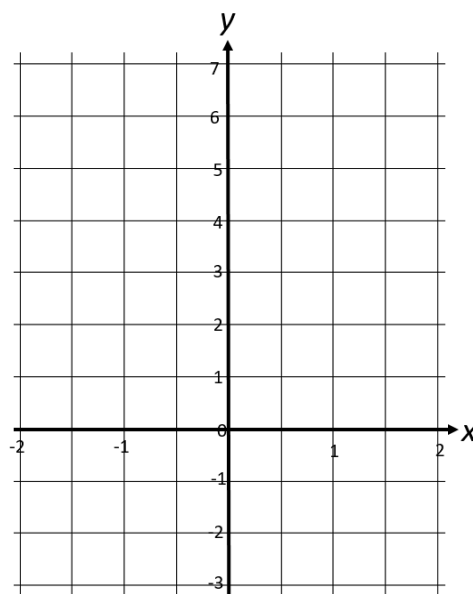


(2 marks)

13. Complete the table of values for $y = 2x + 1$

x	-2	-1	0	1	2
y					

On the grid draw the graph of $y = 2x + 1$



(4 marks)

Score =