

1. Here is an arithmetic sequence.

$$-1, 4, 9, 14, 19, \dots, \dots$$

(i) Write down the next two terms

(ii) What is the Nth term

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

(5 marks)

2.

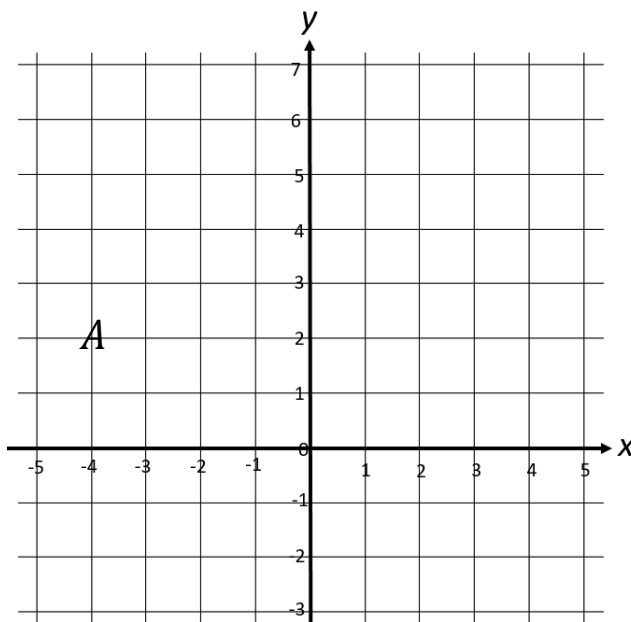
(a) Write down the coordinate A

.....

(b) Plot the coordinate B (2 , 6)

(c) Write down the midpoint of AB

.....



(4 marks)

3. Simplify $4g + 2h + 8 + 5g - 6h + 3$

(2 marks)

4. Simplify $8e \times f \times 6f$

(1 mark)

5. $a = 5$ $b = 0.5$ $c = -2$

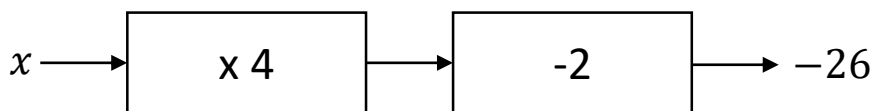
Work out the value of $6a - 2b + 3c$

(2 marks)

6. Simplify $\frac{3x^4 \times 4x^5}{2x^2}$

(2 marks)

7. Calculate



$x = \dots\dots\dots$

(1 mark)

8. Simplify $6m^5 + 8m^5 - 2m^5$

$\dots\dots\dots$

(1 mark)

9. Expand and simplify $2(x + 3) + 3(2x + 5)$

$\dots\dots\dots$

(2 marks)

10. Factorise $x^2 - 4x$

$\dots\dots\dots$

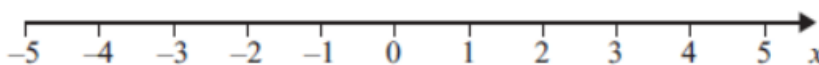
(2 marks)

11. Solve $2x - 5 = 9$

$x = \dots\dots\dots$

(2 marks)

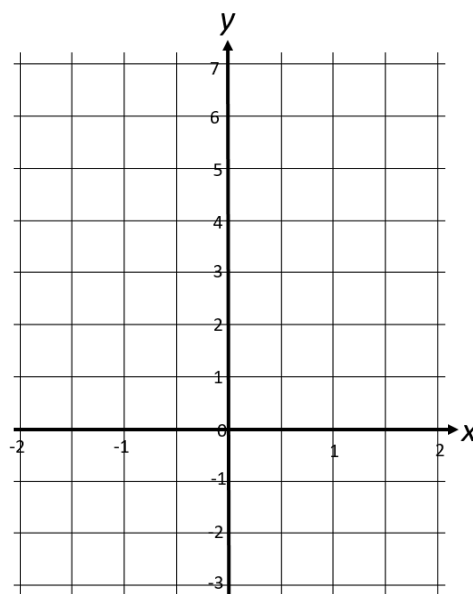
12. Show the inequality $3x \leq -3$ on the number line below.



(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 =