1. Here is an arithmetic sequence.

$$-1 , 4 , 9 , 14 , 19 , \underset{\cdots}{24} , \underset{\cdots}{29}$$

   (i)   Write down the next two terms

   (ii) What is the Nth term

$5n - 6$
....

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

94
....
(5 marks)

2.

   (a) Write down the coordinate A

         $(-4 , 2)$
        ....

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

   (c) Write down the midpoint of AB

         $(-1 , 4)$
        ....
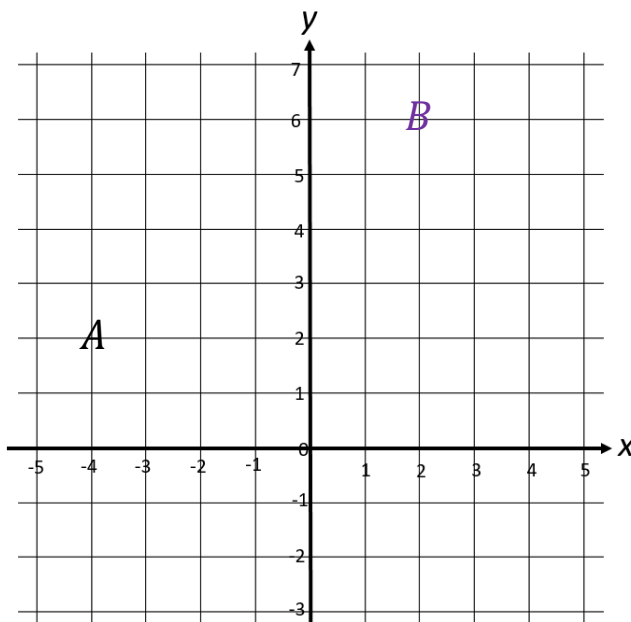
(4 marks)

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

$9g - 4h + 11$
....
(2 marks)

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

$48ef^2$
....
(1 mark)

5. $a = 5$ $b = 0.5$ $c = -2$
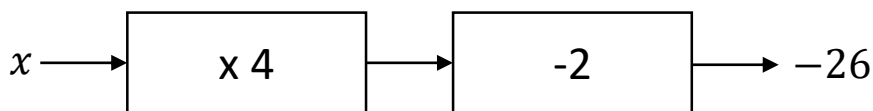
   Work out the value of $6a - 2b + 3c$

23
....
(2 marks)

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

$6y^7$
....
(2 marks)

7. Calculate

$$x \longrightarrow \boxed{\text{x 4}} \longrightarrow \boxed{-2} \longrightarrow -26$$

$x =$............ -8

(1 mark)

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

.... $12m^5$

(1 mark)

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

.... $8x + 21$

(2 marks)

10. Factorise $x^2 - 4x$

.... $x(x - 4)$

(2 marks)

11. Solve $2x - 5 = 9$

$x =$............ 7

(2 marks)

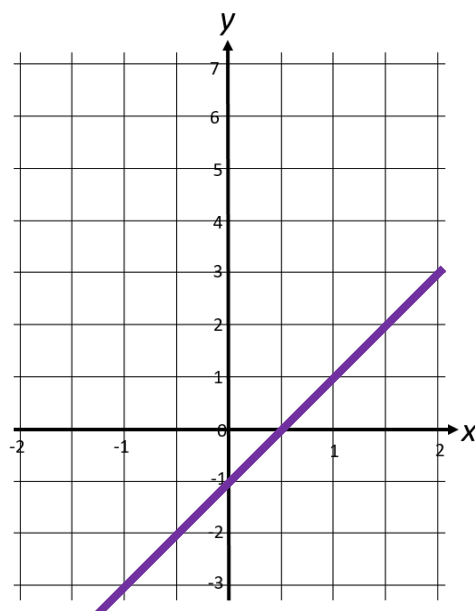12. Show the inequality $3x \leq -3$ on the number line below.
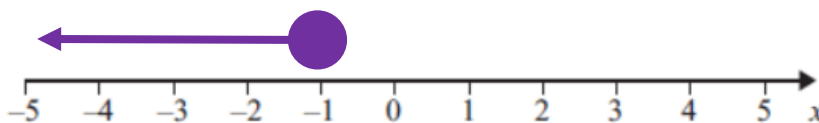
(2 marks)

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

x	-2	-1	0	1	2
y	-5	-3	-1	1	3

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

(4 marks)

Score =