

1. Here is an arithmetic sequence.

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

Work out the next two terms

(ii) The 10th term is

.....

(iii) What is the sum of the first 10 terms in the sequence?

.....

Available from (5 marks)

2.

(a) Write down the coordinates of the point A.

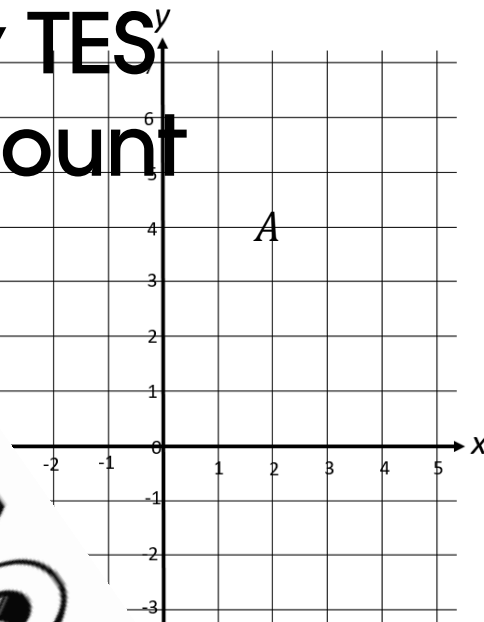
.....

(b) Plot the coordinates of the point B.

(c) Write down the midpoint of the line segment AB.

.....

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(4 marks)

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

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

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

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

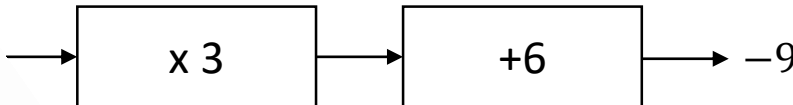
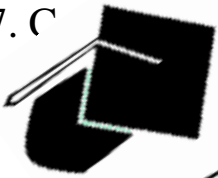
.....

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

.....

(2 marks)

7. C



$x = \dots\dots\dots$
(1 mark)

8. Simplify

$5n^2 - 3n^3$

Available from $\dots\dots\dots$ (1 mark)

9. Expand

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account $\dots\dots\dots$ (1 mark)

10. Factorise

$x^2 + \dots$

$\dots\dots\dots$ (2 marks)

11. Solve

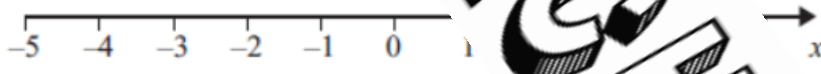
$3x - 2 = 2x$

$x = \dots\dots\dots$
(2 marks)

12. Show the inequality

$x - 1 \geq \dots$

on the line below.



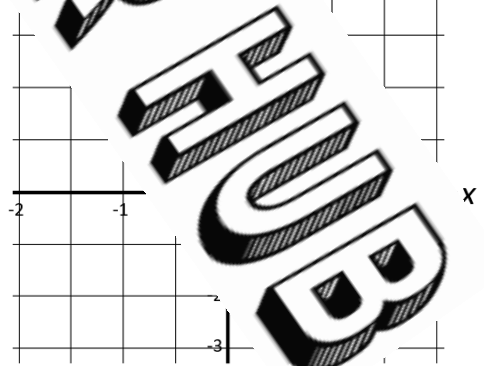
$\dots\dots\dots$ (2 marks)

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

x	-2	-1	0	1	2
y					



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



$\dots\dots\dots$ (4 marks)

Score =