

- 1 Expand $4x^2(3x + 5)$
Circle your answer.

[1 mark]

$$32x^3$$

$$12x^3 + 20x^2$$

$$7x^3 + 9x^2$$

$$12x^2 + 5$$

2 $(2x - 4)(3x + 5)$ is expanded and simplified.

Circle the term which is part of the answer.

[1 mark]

$2x$

$-2x$

$22x$

$-22x$

$$12x^3 + 7x^2 + 3x - 10 \equiv 2(ax^3 + x^2 + 2x - 5) + x(bx + c)$$

[3 marks]

This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.
$$a = \underline{\hspace{2cm}} \quad b = \underline{\hspace{2cm}} \quad c = \underline{\hspace{2cm}}$$

4 Expand and simplify fully $5(3x + 4) - 2(x - 1)$

[2 marks]

Answer _____

5Expand $(x^2 - 9xy)(2x + 5y)$ **[2 marks]**

Answer

- 6 Expand $6x^2(x^3 + 2)$
Circle your answer.

[1 mark]

$$6x^5 + 2$$

$$6x^6 + 2$$

$$6x^5 + 12x^2$$

$$6x^6 + 12x^2$$

7 $3(x - 1) \equiv 3x - 3$ is an identity.

Tick **one** box.

[1 mark]

☐

It is true for **all** values of x

☐

It is true for **some** values of x

☐

It is true for **no** values of x