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]

$2x$ $-2x$ $22x$ $-22x$

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

Work out the values of a, b and c.

[3 marks]

$a =$ _____ $b =$ _____ $c =$ _____

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

[2 marks]

Answer _____

5 Expand $(x^2 - 9xy)(2x + 5y)$

[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