2.7 – Expanding brackets

Student name: _____ Score: _____

1. Expand the brackets and simplify.

    (a) $2x^2(3x + 5xy)$

    .... [2]

    (b) $(2a - 3b)(a - 2b)$

    .... [3]

2. Expand.

$$x^3(x^2 + 3)$$

    .... [2]

3. Simplify $4(2x - 1) - 3(x - 2)$.

    .... [2]

4. Expand the brackets and simplify.

$$(2x - 3y)(3x - 4y)$$

    .... [3]

5. Expand and simplify.

    (a) $-3x(2 - x) - (3x^2 - 7)$

    .... [2]

    (b) $(5x - 3y)(2y - 5x)$

    .... [3]

6. Expand the brackets.

$$x^2(x^3 - 7)$$

    .... [2]

7. Expand the brackets and simplify.

$$2(3x - 4) - 3(2x - 3)$$

    .... [2]

8. Expand.
$$x(x^3 - 4x)$$

    .... [2]

9. Expand the brackets and simplify.

$$(4x - 3y)(2x - 5y)$$

    .... [3]

10. Expand the brackets and simplify.

(a) $3x(4-5x)-5x(3x+2)$

.... [2]

(b) $(4x-y)(3x+2y)$

.... [3]

11. Expand and simplify.

$$(2p-7q)(p+q)$$

.... [2]

12. Expand the brackets and simplify.

$$(3x-5y)(5x-3y)$$

.... [3]

13. Expand and simplify $5(2x+3y)-3(4y-2x)$.

.... [2]

14. Expand and simplify.

$$4(3x+y)-3(x-2y)$$

.... [2]

15. Expand the brackets and simplify.
$$2(3x-1)+3(1-2x)$$

.... [2]

16. Expand.
$$3(2x-1)$$

.... [1]

17. Expand the brackets and simplify.

$$(3a-5b)(2a-3b)$$

.... [3]

18. Expand the brackets and simplify.

$$5x(2-3x)-3x(3x-2)$$

.... [2]

19. Expand.

$$3(x-2y)$$

.... [1]

20. Expand the brackets and simplify.

    (i) $5(2-p)-3(3+2p)$

.... [2]

    (ii) $(7g-2h)(3g+11h)$

.... [3]