Expanding Double Brackets

Expand and simplify the following expressions.

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1. Expand and simplify: $(x + 2)(x + 5)$

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2. Expand and simplify: $(y + 3)(y - 4)$

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3. Expand and simplify: $(a - 5)(a - 2)$

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4. Expand and simplify: $2(p - 6)(p + 6)$

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5. Expand and simplify: $(2x + 1)(x + 3)$

6. Expand and simplify: $(3y - 2)(2y + 5)$

7. Expand and simplify: $(x + y)(x + y)$

8. Expand and simplify: $3(a + b)(c + d)$

9. Expand and simplify: $3(4p - 3q)(2p + q)$

10. Expand and simplify: $(x+5)^2$

11. Expand and simplify: $(y-3)^2$

12. Expand and simplify: $(2a+1)^2$

13. Expand and simplify: $(3x-y)^2$

14. Expand and simplify: $3(x+1)(x+2)$

15. Expand and simplify: $x(x+4)(x-1)$

16. Expand and simplify: $(x+2)(x+3)+(x+4)(x+1)$

17. Expand and simplify: $(y+5)(y-2)-(y+3)(y-1)$

18. Expand and simplify: $(x^2 + 3)(x - 4)$

19. Expand and simplify: $(2y^2 - 1)(y^2 + 5)$

20. Expand and simplify: $(a + b)^2 - (a - b)^2$

21. Expand and simplify: $(x + 1)(x + 2)(x + 3)$

22. Find an expression for the area of a square with side length $(x + 7)$.

23. The area of the rectangle below is $x^2 + 9x + 14$. Find an expression for the missing side.

24. A square has a side length of x. A new rectangle is formed by increasing one side by 4 and the other by 6. Find an expression for the area of the new rectangle.