The product rule

Name _____ Date _____

1. $f(x) = (3x)(2x + 5)$ $f'(x) =$ _____

2. $f(x) = (x^2 - 4)(4x + 5)$ $f'(x) =$ _____

3. $f(x) = (x^2 + 1)(3x - 5)$ $f'(x) =$ _____

4. $f(x) = (2x + 4)(2x - 4)$ $f'(x) =$ _____

5. $f(x) = (x^2 - 1)(3x)$ $f'(x) =$ _____

6. $f(x) = (3x + 1)(3x - 3)$ $f'(x) =$ _____

7. $f(x) = (x^2 + 2)(x - 5)$ $f'(x) =$ _____

8. $f(x) = (-3x - 5)(-4x + 5)$ $f'(x) =$ _____

9. $f(x) = (x^2 - 3)(-x + 1)$ $f'(x) =$ _____

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10. $f(x) = (x^2 - 5)(-4x - 1)$ $f'(x) =$ _____

11. $f(x) = (x^2 - 3)(-4x + 1)$ $f'(x) =$ _____

12. $f(x) = (x^2 + 3)(-3x - 1)$ $f'(x) =$ _____

13. $f(x) = (x^2 + 3)(x + 5)$ $f'(x) =$ _____

14. $f(x) = (-x + 4)(x - 2)$ $f'(x) =$ _____

15. $f(x) = (x^2 + 2)(-3x + 1)$ $f'(x) =$ _____

16. $f(x) = (2x - 3)(-2x - 3)$ $f'(x) =$ _____

17. $f(x) = (-3x - 1)(4x - 4)$ $f'(x) =$ _____

18. $f(x) = (4x - 2)(2x - 5)$ $f'(x) =$ _____