Trig, exponential, and log derivatives

Name _____ Date _____

1. $f(x) = x^2e^x$ $f'(x) =$ _____

2. $f(x) = x^2 \sin x$ $f'(x) =$ _____

3. $f(x) = e^{2x}$ $f'(x) =$ _____

4. $f(x) = x^2e^x$ $f'(x) =$ _____

5. $f(x) = \sin(5x)$ $f'(x) =$ _____

6. $f(x) = e^{6x}$ $f'(x) =$ _____

7. $f(x) = e^{6x}$ $f'(x) =$ _____

8. $f(x) = x^2e^x$ $f'(x) =$ _____

9. $f(x) = x^2e^x$ $f'(x) =$ _____

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10. $f(x) = e^{2x}$ $f'(x) =$ _____

11. $f(x) = \ln(-2x - 2)$ $f'(x) =$ _____

12. $f(x) = \sin(6x)$ $f'(x) =$ _____

13. $f(x) = e^{5x}$ $f'(x) =$ _____

14. $f(x) = \sin(4x)$ $f'(x) =$ _____

15. $f(x) = \cos(5x)$ $f'(x) =$ _____

16. $f(x) = e^{4x}$ $f'(x) =$ _____

17. $f(x) = \cos(3x)$ $f'(x) =$ _____