

Name: _____
Group Members Present:

Grade: _____

_____, _____, & _____

Write the derivative formula for each function.

1. $f(x) = x^2 + 5$

2. $y = 2x^{0.8}$

3. $y = 16x$

4. $g(x) = x - \frac{5}{16}$

5. $y = -x^{10}$

6. $f(x) = 3x^5$

7. $y = 4x^2 - 6x + 1$

8. $y = 3\sqrt{2}x^2 + e^4$

9. $f(t) = \frac{t^2}{2}$

10. $y = 3\sqrt{x}$

11. $g(x) = \frac{2}{x^3}$

12. $y = \frac{-19}{5x}$

13. $f(t) = 6t^7 - 3t^5 + 5t^2 - 12t + 8$

14. $y = 6.7 + \frac{5}{2}x^3 + 10^3x^5 - 12.5x$

15. $f(x) = \frac{1}{2x} + 4x^{\frac{2}{3}}$

16. $C(x) = \frac{1}{x}$ dollars in x years

17. $f(x) = \frac{10x^3 + x^2 - 2x}{x}$

18. $R(p) = 36.5p + \frac{5}{2p^4}$ cents for p pounds