

Calculus Quiz

Your Name:

Differentiate the function.

1. $f(x) = \cot x$

2. $n(p) = p \sin p$

3. $g(u) = \frac{1}{2}u^6$

4. $p(s) = k$

5. $s(r) = 3e^r$

6. $p(x) = -2x^{-3/2} - x^{1/9}$

7. $y = \frac{e^x}{1-x}$

8. $f(x) = (x^3 + x^2)(7x - 5)$

9. $r(s) = s^2 e^s$

10. $g(x) = (5x^2 + x)^{10}$

11. $h(y) = \frac{\sec y}{9y^2 - 2y}$

12. $f(x) = \frac{14x^2 - 6x^4}{2x^3}$

13. $k(u) = 2u \sin^2 u + 2u \cos^2 u$

14. $w(n) = 4^n$

15. $s(p) = p \csc x$

