

# Calculus Worksheet

Your Name:

Differentiate the function.

1.  $q(a) = \frac{\tan a}{\sin a}$

2.  $f(x) = \sqrt{4x^5 - 6}$

3.  $g(u) = \frac{u^4}{\cos u}$

4.  $p(x) = x^a e^x$

5.  $s(n) = n^3 \tan n$

6.  $p(x) = \cos \sqrt{x}$

7.  $y = \sin^{15} x$

8.  $f(x) = \tan^2 x - \sec^2 x$

9.  $r(s) = \cos(-3s)$

10.  $f(x) = e^{x^2+4x}$

11.  $h(t) = \tan(\sin t)$

