Calculus
Trig. Derivatives
Worksheet #3

Name: _____

Directions: Find the derivative of the following functions.

1. $f(x) = [\sec(-x)][\sin(3x^2 - 7x)]$

2. $f(x) = \cot\left[\frac{(\ln x)}{e^{-x}}\right]$

3. $f(x) = \frac{\cos(\sqrt{5x^2-3})}{\tan x}$

4. $f(x) = \csc^2(8x) - \cot^2(8x)$

5. $f(x) = \sec(5x \sin(5x))$

6. $f(x) = \sin(\cos(3\pi x))$

7. $f(x) = \sqrt[3]{\csc\sqrt{2\sin x\cos x}}$

8. $f(x) = \ln 5^{x(\sec 3x)(\cos -2x)}$

9. $f(x) = \log[(\cos^2 x + 2\tan(x^3 - 7x)]$

10. $f(x) = [\csc(e^{-x})][\ln(\sin 3x)]$

11. $f(x) = \sec^4\left(\sin\left(\tan\sqrt{x}\right)\right)$

12. $f(x) = \frac{2}{\sqrt[5]{\ln[3e^x(\cot x)]}}$

13. $f(x) = \left(x^{\cos(-\pi)}\right)(-\pi\cos x)$

14. $f(x) = \frac{\frac{\cos(5x)}{\cos(-3x)}}{\csc(-3x)\cot(5x)}$