Tutor-USA.com Worksheet
Calculus – Natural Logs and Differentiation

Name: _____
Date: _____ Period: _____ Score: _____

Differentiate and simplify:

1) $f(x) = \ln(9 + 6x)$

2) $g(x) = \ln(\sec 2x + \tan 2x)$

3) $h(x) = \ln\sqrt{9 + 5x}$

4) $f(x) = \ln\sqrt{\tan x}$

5) $f(x) = \ln(3x + 1)^2$

6) $f(x) = \ln\sqrt{\frac{2x+1}{2x-1}}$

7) $g(x) = \ln^3(2x + 1)$

8) $f(x) = \sqrt[3]{\ln x}$

9) $f(x) = \ln(\sqrt{9 - x^2})$

10) $h(x) = \ln\sqrt[3]{\frac{x+1}{x^2+1}}$

11) $f(x) = \ln(\sin 5x)$

12) $f(x) = \sqrt{x+1} - \ln(1 + \sqrt{x+1})$

13) $f(x) = \cos(\ln x)$