Quiz 4

Please show **all** your work! Answers without supporting work will not be given credit. Write answers in spaces provided.

Name:____

- 1. Find the derivative of the following functions:
 - (a) **[3 pts]** $f(x) = (3x 1)^{100}$

f'(x) =______

(b) **[4 pts]** $g(x) = 20 \tan^2(5x+1)$

g'(x) =_____

2. [5 pts] Find the second derivative of $h(x) = \ln \sqrt{x^2 + 2}$