Name_____   Section 0242

Answer all problems. There are 10 possible points.

1. Find the derivatives of the following functions (Show all work to receive full credit!):

a) (3pts) $f(x) = 5^{(3x^3+2x+1)}$

b) (3pts) $p(y) = \dfrac{\ln(y+1)}{e^y}$

2. (4pts) Find the derivative of $f(x) = \dfrac{3\sin(x)}{2-\sin(x)} + 1$.(Show all work to receive full credit!).