Pledge:

2/4/2009 MATH261 Calculus I Name:_____
Dr. Lunsford Quiz 7 (20 Points Total)

I. Find the indicated derivatives. <u>You are NOT required to simplify your answers</u>. (4 points each, 16 total)

(a) $f(x)=\frac{1}{x^4}\ e^x - x^2\sin(x)$

$f'(x)=$

(b) $g(t)=\pi^4\sqrt{t^5}\sec(t)$

$\frac{d}{dt}g(t)=$

(c) $l(x)=\frac{x^2e^x-\cos(x)}{3x^4-2x+1}$

$l'(x)=$

(d) $p(y)=\frac{10e^y\tan(y)}{y^3}$

$\frac{dp}{dy}=$

II. Below you are given the graph of $y=\frac{1-x}{1+x}$. Find the equation of and accurately graph the tangent line to the graph at $x=0$.