

**Quiz 2-** MAC 2311, F'16      **NAME:** \_\_\_\_\_      **Panther ID:** \_\_\_\_\_

**1.** (8 pts) Compute the derivative of each of the following functions. No need to simplify. (2 pts each).

(a)  $y = 5x^4 - 3x^2 + 7$

(b)  $y = \sec x \tan x$

(c)  $y = x \sin(x^3)$

(d)  $y = \cos(\sin(\sqrt{x}))$

**2.** (3 pts) Find the equation of the tangent line to the graph of  $f(x) = \frac{2x+1}{x^2+1}$  at  $x = 0$ .