

Quiz 2- MAC 2311, F'14    NAME: \_\_\_\_\_    Panther ID: \_\_\_\_\_

1. (6 pts) Compute the derivative of each of the following functions:

(a)  $f(x) = 5x^4 - 2\sqrt{x} + \pi^2$

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

2. (5 pts) Find the equation of the tangent line to the graph of  $f(x) = \frac{x}{x^2-2}$  at  $x = 2$ .