MAT 136 (Calculus I), Quiz 4, Prof. Jim Swift

No notes, no calculators allowed. Do your own work.   Name: _____

Differentiate the following functions. Use a complete sentence for each answer. You do *not* need to simplify unless instructed to do so.

1. $f(x) = 3x^2 - 5x + 6$

2. $g(x) = \dfrac{1}{x^2} - 4\sqrt{x}$

3. $y = x(e^x - x^2)$

4. $h(x) = \dfrac{x}{x^2 + 2}$. Simplify the derivative.