Name:
Student ID #:

Question 1. Find the absolute maximum and minimum of the function
$$f(x) = x^{1/2} - x^{2/3},$$
in the interval $[0, 4]$.

Question 2. Find the equation(s) of the tangent line(s) to the graph
$$f(x) = e^{-2x},$$
defined on the interval $[0, 3]$ that are parallel to the secant line that passes through $(0, f(0))$ and $(3, f(3))$.

Your Solution.