Quiz 3 - MATH 151

DATE: Week 4, February 4 - 8

INSTRUCTOR: George Voutsadakis

Read each problem **very carefully** before starting to solve it. Each problem is worth 5 points. It is necessary to show **all** your work. Correct answers without explanations are worth 0 points.

GOOD LUCK!!

- 1. (a) Use the three-value table method to sketch the graph of the exponential function $f(x) = (\frac{1}{3})^x$. (2 points)
 - (b) Use the graph of y = f(x) from the previous part together with shifts and reflections to obtain the graph of the exponential function $g(x) = -(\frac{1}{3})^{x+2}$. (3 points)
- 2. Solve the following exponential equation: $3^{x^2} \cdot 27^x = 3^{28}$. (5 points)