**F17 Changes to Math 1431**

The biggest change to Math 1431, from edition 12 to 13, is the elimination of chapter one. The first and second homework sections switched in order from the previous edition. The second homework is now section 1.3 which is linear and quadratic functions (no longer just linear), which was homework one in the previous edition. Since a number of linear function review problems are not in this new text book, we added a few quadratic function review questions.

Here are the detailed changes by objective:

The following objectives were taken out of the course:

* Determine whether the slope of a line is positive, negative, zero, or undefined (Chapter One)
* Graph linear equations (Chapter One)
* Recognize the placement of slope and *y*-intercept in the slope-intercept form of a line
* Use the graph of a line to write its equation (Chapter One)
* Find the slope of an equation written in standard form (Chapter One)
* Find the *x*- and *y*-intercepts of the graph of a line (Chapter One)
* Write equations for vertical and horizontal lines (Chapter One)
* Write the equation of a line given the slope and a point(Chapter One)
* Use the definition of continuity (Chapter Two)
* Differentiate a constant or a constant times a function (Chapter Two)
* Determine the average value of functions (Chapter Five)
* Find the area under the graphs of nonnegative functions over closed intervals (Chapter 6)

The following objectives were added:

* Find the intercepts, vertex, range, and maximum or minimum value of a parabola from its graph (Chapter One)
* Use the vertex form of a quadratic function to find information about its graph (Chapter One)
* Describe transformations of the graphs of exponential functions (Chapter One)
* Find the family of all antiderivatives of a derivative (Chapter Five)

Other key changes:

Optimization homework merged from two homework assignments to one homework assignment.