

# 1ST QUARTER ASSESSMENT

## Review Topics

Below is a list of specific tasks to be performed on the 1st Quarter Assessment. The concepts are divided by chapter according to previous tests given (not necessarily by the textbook).

### Chapter 1

- Perform linear regressions for data using the graphing calculator
- Solve absolute value equations
- Solve absolute value inequalities
- Solve linear equations in one variable
- Solve linear inequalities in one variable

### Chapter 2

- Evaluate functions, including algebraic inputs
- Graph linear inequalities in two variables
- Graph piecewise functions
- Interpret the rate of change given linear functions
- State the domain and range of graphed functions
- Write linear equations given two points
- Write new functions given transformations to a parent function

### Chapter 3

- Graph systems of inequalities
- Solve linear programming problems given the objective function and its constraints
- Solve systems of equations in three variables
- Solve systems of equations in two variables

### Chapter 4

- Evaluate the determinant of a matrix
- Evaluate the inverse of a matrix
- Find the area of a triangle given its vertices
- Multiply matrices
- Solve applications involving systems and/or matrices
- Solve matrix equations