MAC1105 Test 2 Study Guide

- Distance Formula and how to use it
- Midpoint Formula and how to use it
- Standard Equation of a Circle
- Know how to write the equation of a circle from given information
- Be able to find center and radius given the equation of a circle
- Know how to graph equations using a T-table
- Know how to find x and y intercepts
- Understand functions
- Be able to identify what is a function from a set of ordered pairs, diagram, or graph
- Know how to find domain and range algebraically
- Know how to find domain and range by observing a graph
- Know how to graph a line
- Know how to find the slope
- Know how to write the equation of a line from given information
- Know slope-intercept equation and point-slope equation
- Understand perpendicular and parallel line
- Be able to identify where a function is increasing, decreasing, or constant
- Be able to find relative maximum or minimum values
- Be able to interpret the graphs of piecewise functions
- Know how to compute the algebra of functions algebraically
- Know how to compute the composition of functions algebraically
- Be able to describe the symmetry of an equation
- Be able to tell if a function is even or odd
- Be able to understand and perform transformations for the 5 basic functions