Next to each topic are problems from the **Chapter 1 Test on page 135** or the **Chapter 2 Test on page 237** of the Textbook. Also study the homework problems. A complete list of the homework problems is on the course webpage.

- Find the midpoint of a line segment and the distance between two points (Ch Test 1: 17a-d)
- Find the center and radius from the equation of a circle (Ch Test 1: 18)
- Linear equations
 - o Graph the solution and find the x and y intercepts (Ch Test 1: 19)
 - o Find the slope of a line (find slopes of parallel and perpendicular lines)
 - Write the equation of a line (Ch Test 1: 20)
- Functions
 - Function notation, Domain and Range (Ch Test 2: 2)
 - Evaluate Piecewise functions (Ch Test 2: 7a)
 - Difference Quotients
- Graphs of Functions
 - Read Domain and Range from the graph
 - Graph a Piecewise Function (Ch Test 2: 7b)
- Increasing and Decreasing Functions
 - o From the graph find the intervals on which a function is increasing/decreasing
 - Find the average rate of change of a function on an interval (Ch Test 2: 3)
- Transformations
 - Vertical and Horizontal shifts (Ch Test 2: 4b, 5)
 - o Reflections about the x axis, reflections about the y axis
- Quadratic Functions
 - Put equation in standard form to sketch the graph (Ch Test 2: 6a, b)
 - Find the vertex of a quadratic function and identify it as a minimum or maximum. (Ch Test 2: 6c)