## Precalculus, Chapter 1, Basic Functions

1.2.1 (Functions): I can use the definition of a function and the Vertical Line Test to decide if a relation is/is not a function. I can find the domain and range of a function.
P. 94: 3, 8, 10, 18, 20
1.2.2 (Functions): I can identify \& describe discontinuities of a function (including hidden behavior due to grapher failure).
P. 94: 22, 73
1.2.3(Functions): I can identify \& describe the interval on which a function is increasing, decreasing, and/or constant. I can also identify a function's extrema and whether the graph is bounded.
P. 94: 26, 30, 38, 46, 74-76
1.2.4 (Functions): I can analyze function characteristics such as symmetry, asymptotes, and end behavior.
P. 94: 47, 52, 57, 62, 64
1.3.1 (Functions): I can recognize the graphs of 12 basic functions and describe the characteristics of each.
P. 106: 13-25 all, 35-39
1.4.1 (Functions): I can build new function from basic functions using addition, subtraction, multiplication and division. I can determine the domain \& range of the new function.
P. 116: 4, 6, 45-48
1.4.2 (Functions): I can build new functions using composition and find the domain, range, and graph. I can also decompose a new function into its original components. P. 116: 11, 12, 15, 18, 21, 23-29, 49
1.5.1 (Functions): I can determine whether a function has an inverse and express it symbolically (using function notation for inverses) and/or graphically (if it exists).
P. 126: 9, 11, 14, 20, 24, 25, 34, 36, 39, 43
1.6.1 (Functions): I can translate, reflect, and compress a basic function using the Graph Translation Theorem.
P. 136: 8, 17, 18, 43-54

