Precalculus Assignments Study Guide
Chapter 2: Functions and Their Graphs

1. (2.1) Functions -p 69-70;
   19,23,29,31,35,39,43,47,51,55,59,63,69,71,75,79,87
   a) Find the domain & range & determine whether
      they represent function. p69,19,23,29
   b) Determine whether equations define functions.
      p69,31,35,39
   c) Find the values of the functions, p 6943,47
   d) Find the domain of the function defined by an
      equation. p 69, 51,55,59,63
   e) Form the sum, difference, product, and quotient
      of two functions, p 69, 67, 69, 71,75
   f) Find the difference quotients p 69; 79,87

2. Relations and functions (1.1) Resources: p2 ,1-10

3. (2.2) The graph of a function p6-77; 11 a-
   j,13,17,21,25

   a) Obtain information from or about the graph
      p76,11 a-j
   b) Identify the graph of a function. P77,13,17,21, 25

4. Composition of functions (1.2) Resource p5, 1-12

5. (2.3) Properties of functions p 90-91;13,14,17, 19,21,23, 37, 41, 45, 47, 65
   a) Use the graphs to determine where the functions are increasing or decreasing, or constant p 90, 13,15,17.
   b) Use the graph to locate the maxima and minima. p90, 19,21,23
   c) Identify even and odd functionsp91,37, 39, 41, 45,47, 49.

6.(2.4) Library of functions: Piecewise-defined Functions p102-103,11,15,19,23,27,29,31,34,37, 40, 43, 47

   Graph functions, p102, 11,15,19,23,

   a) Evaluate   piecewise-defined functions p 103, 27,29,31,34,37,40,43,45

6. Piecewise Functions (1.7) p. 20, 1-7

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7. (1.1)p13-16;15,17,35,39, -45 odd,51-65 odd, 71,75, 79,83,87,

a) Plot points in rectangular coordinate system p13, 15,17,

b) Us the distance & midpoint formula, p14,35, 39-45 odd,51-65 odd

c) Find the intercepts from the graph. p15,71,75

d) Graph equations by plotting points. P16, 79,83,87

7. Graphing Linear Equations (1,3) Resources p 8; 1-7

8. Lines (1.4) Lines, p 40-42,
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9. Writing Linear equations (1.4) Resources, p.11, 1-11

10. (1.5) Circles p.50

   9,14,17,21,23,26,29,32,35,37,39,41,43

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Chapter 3: Linear and Quadratic Functions

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12. Modeling Real -World Data with Functions (1.6)
    resources p 17. 1-2

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15. (3.5) Inequalities Involving Quadratic functions p.
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