Chapter 2 Review

1. Find the slope of the line through and .

2. Find the equation of the line through  and in point slope form.

3. Find the equation of the line (see below) to  and through the point 

a. Parallel

b. Perpendicular

4. A college purchased exercise equipment worth $14,000 for the new campus fitness center. The equipment has a useful life of 8 years. The salvage value at the end of 8 years is $2000. Write a linear equation that describes the book value of the equipment.

5. Given  find

a.  b.  c. 

6. Graph 

7. Given find

a.  b.  c.  d. 

8. Find where for

a.  b.  c. 

9. Find the domain for the functions in 8.

10. Given

Domain:

Range:

Increasing:

Decreasing:

Constant:

11. Use a graphing utility to graph the function and approximate any relative minimum or relative maximum values. 

12. Find the average rate of change of the function from to for



13. Determine if the following functions are odd/even or neither by taking 

a.  b.  c. 

14. Identify a. the parent graphs and b. the transformations that have been done to the parent graph to get 

 a.  b.  c. 

15. Find the equation for the following graphs.

a. b. c.