Pre-Calculus Review Day 1 Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Rewrite the following using interval notation.

1. 2. 3. All real numbers

For the given function, , find the indicated values.

4. 5.

Determine whether the following is an even, odd or neither function. Then state the type of symmetry (y-axis, origin or neither) of the graph.

6. 7.

Find the equation of each line. Answer in point-slope form.

8. Through the points (-2,1) and (2,-2) 9. Through (-3,0) and normal to

Algebraically determine the domain and range of the following functions. State the equations of any horizontal asymptotes and /or vertical asymptotes.

10. 11. 12.

Sketch the graph of the function. Then find its domain and range.

13. 14.

Write a piecewise formula for the function.

15. 16.  17.

Rewrite the following as a piecewise function.

18. 19.