**Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Algebra 2 Advanced – Assignment 2-3**

3-13 Simplify each of the following expressions.

a. (3*x2yz4*)2 b.



c. (*pq2)(p3q5)* d. ()3

3-14 Without using a calculator, perform each operation indicated in the expressions below.

a.  -  b.  -  c. ()() d. ()()

3-15 Sketch the shape of the graph of the function of y = bx given each of the following values of *b*.

1. *b* is a number larger than 1.
2. *b* is a number between 0 and 1.
3. *b* is equal to 1.

3-16 Find rules for each of the following sequences:

1. 108, 120, 132, . . . b.  . . .

c. 3741, 3702, 3663, . . . d. 117, 23.4, 4.68, . . .