Math 4 Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**U5 Calculus Algebra Skills Review**  Date\_\_\_\_\_\_\_\_\_\_\_

*Examples of critical algebra skills you must have mastered in order to succeed in the Calculus Unit.*

Expand the following:

1.  2.  3. 

Simplify the following so that it is written as 

4.  5.  6.  7.  8.  9.) 

Simplify the following, if possible.

10.  11. 

12.

Calculate the following:

13. The slope of the line going though the points (-3, -8) and (10, -4).

14. The slope of the line going though the points (-1, 6) and (12, -7).

Complete the following:

15. The slope of a horizontal line is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

16. The slope of a vertical line is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

Given , evaluate and simplify the following:

4.  5. 

6.  7. 

8.  9. 

Solve the following using Number Line Analysis:

17.  18.