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

Critical Skills Review Date \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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

Expand the following:

1.  2.  3. 



Given , evaluate and simplify the following:

4.  5. 

6.  7. 

8.  9. 

10. 

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Simplify the following, if possible.

11.  12.  13. 



14.

15.  16.  17.  = 18.  = 19.  = 20. 

21. Rewrite so it has no roots or negative exponents.

22. Evaluate without a calculator.

Calculate the following:

23. The slope of the line going though the points (-3, -8) and (10, -4). Then write the equation of the line in

point-slope form.

24. The slope of the line going though the points (-1, 6) and (12, -7). Then write the equation of the line in

point-slope form.

Complete the following:

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

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

Solve the following using Number Line Analysis:

27.  28.