Math 3H Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

10.1 Basic Properties Period \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Part 1:**

Re-write each of the equations in exponential form.

1.  2.  3. 

4.  5.  6. 

Re-write each of the equations in logarithmic form.

7 .  8.  9. 

10.  11.  12. 

Use properties of logarithms to evaluate the expression without a calculator.

13.  14.  15. 

16.  17.  18. 

Evaluate without the use of a calculator.

19.  20.  21. 

22.  23.  24. 

**Part 2:**

Solve the following equations.

25.  26.  27. 

28.  29.  30. 

31.  32.  33. 

34.  35.  36. 

37.  38. 