

Name \_\_\_\_\_

Date \_\_\_\_\_

## Logarithmic Functions- Independent Practice Worksheet

Complete the following problems:

1. Write the exponential form of:  $5 = \log_4 1024$

2. Write the exponential form of:  $8 = \log_2 256$

3. Write the exponential form of:  $7 = \log_7 823543$

4. Determine the range of:  $y = \log_7 x + 3$

5. Determine the range of:  $y = \log_2 x + 9$

6. Determine the range of:  $y = \log_{11} x + 5$

7. Write the exponential form of:  $4 = \log_9 6561$

8. Write the exponential form of:  $10 = \log_5 9765625$

9. Determine the range of:  $y = \log_{22} x + 6$

10. Determine the range of:  $y = \log_{10} x + 3$

