

Name \_\_\_\_\_ Date \_\_\_\_\_ Period \_\_\_\_\_

## 18.1 – Changing Forms of Logarithms

Rewrite each equation in logarithmic form.

1.  $4^0 = 1$

2.  $y^x = 17$

3.  $11^2 = 121$

4.  $x^{11} = 132$

5.  $13^2 = 169$

6.  $3^4 = 81$

7.  $x^{17} = y$

8.  $3^5 = 243$

9.  $y^8 = x$

10.  $14^2 = 196$

Rewrite each equation in exponential form.

$$11. \log_6 x = y$$

$$12. \log_{14} x = y$$

$$13. \log_x 21 = y$$

$$14. \log_2 x = y$$

$$15. \log_{15} 23 = x$$

$$16. \log_{12} x = y$$

$$17. \log_y 107 = x$$

$$18. \log_{11} 121 = 2$$

$$19. \log_3 81 = 4$$

$$20. \log_3 132 = x$$