

## Converting Between Logarithmic and Exponential Equations

Rewrite each equation in exponential form.

1)  $\log_x y = 3$

2)  $\log_m n = -18$

3)  $\log_u 49 = v$

4)  $\log_{19} y = x$

5)  $\log_a 6 = b$

6)  $\log_y 56 = x$

7)  $\log_y 105 = x$

8)  $\log_x y = 7$

9)  $\log_y x = 18$

10)  $\log_x \frac{99}{65} = y$

Rewrite each equation in logarithmic form.

11)  $y^x = 125$

12)  $12^x = 18$

13)  $9^n = m$

14)  $p^7 = 47$

15)  $2^m = n$

16)  $6^x = y$

17)  $2^{11} = n$

18)  $y^{\frac{19}{15}} = x$

19)  $u^v = 6$

20)  $12^y = x$