Rewriting Exponentials as Logarithms Practice Problems

Rewrite each equation in logarithmic form.

1) $\left(\dfrac{1}{3}\right)^x = y$

2) $x^5 = y$

3) $18^{-14} = x$

4) $y^{-14} = x$

5) $y^4 = x$

6) $12^x = 179$

7) $18^y = x$

8) $11^x = y$

9) $y^9 = x$

10) $13^x = 57$

Answers to Rewriting Exponentials as Logarithms Practice Problems

1) $\log_{\frac{1}{3}} y = x$

2) $\log_x y = 5$

3) $\log_{18} x = -14$

4) $\log_y x = -14$

5) $\log_y x = 4$

6) $\log_{12} 179 = x$

7) $\log_{18} x = y$

8) $\log_{11} y = x$

9) $\log_y x = 9$

10) $\log_{13} 57 = x$