$\underset{\tiny{\textcircled{\tiny 0}}}{\textbf{Rewriting}} \underset{\tiny{\textbf{K ut a Software LLC.}}}{\textbf{Exponentials}} \underset{\tiny{\textbf{All rights reserved.}}}{\textbf{Ball rights}} \underset{\tiny{\textbf{reserved.}}}{\textbf{Practice Problems}}$

Rewrite each equation in logarithmic form.

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

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

2)
$$\log_x y = 5$$
 3) $\log_{18} x = -14$ 4) $\log_y x = -14$

5)
$$\log_{v} x = 4$$

6)
$$\log_{12} 179 = x$$
 7) $\log_{18} x = y$ 8) $\log_{11} y = x$

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

$$\log x \cdot v = x$$

9)
$$\log_{y}^{2} x = 9$$

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