

PRACTICE Quiz 7.1-7.2 Change Logarithmic Form and Inverse Logs**Rewrite each equation in logarithmic form.**

1) $6^{10} = x$

2) $225^{\frac{1}{2}} = 15$

Rewrite each equation in exponential form.

3) $\log_x 198 = y$

4) $\log_{216} 6 = \frac{1}{3}$

Use a calculator to approximate each to the nearest thousandth.

5) $\ln 6.3$

6) $\log_6 64$

Find the inverse of each function.

7) $y = -\log_x 3$

8) $y = \log_5 (x + 4)$

9) $y = \log_4 (3x)$

10) $y = \log_{\frac{1}{5}} x + 3$

PRACTICE Quiz 7.1-7.2 Change Logarithmic Form and Inverse Logs**Rewrite each equation in logarithmic form.**

1) $6^{10} = x$

$$\log_6 x = 10$$

2) $225^{\frac{1}{2}} = 15$

$$\log_{225} 15 = \frac{1}{2}$$

Rewrite each equation in exponential form.

3) $\log_x 198 = y$

$$x^y = 198$$

4) $\log_{216} 6 = \frac{1}{3}$

$$216^{\frac{1}{3}} = 6$$

Use a calculator to approximate each to the nearest thousandth.

5) $\ln 6.3$

$$1.841$$

6) $\log_6 64$

$$2.321$$

Find the inverse of each function.

7) $y = -\log_x 3$

$$y = 3^{-\frac{1}{x}}$$

8) $y = \log_5 (x + 4)$

$$y = 5^x - 4$$

9) $y = \log_4 (3x)$

$$y = \frac{4^x}{3}$$

10) $y = \log_{\frac{1}{5}} x + 3$

$$y = \frac{1}{5^{x-3}}$$