

## Last Practice Test - Chapter 0

Simplify

1.  $7^5 \cdot 7^2$

2.  $\frac{p^2}{p^5}$

3.  $(-2a^4b^6c^5)^3$

4.  $\frac{9x^3}{y^2} \cdot \frac{y^4x^3}{8x^{-1}}$

5.  $(-2x^{-3})^2$

Evaluate

6.  $64^{4/3}$

7.  $16^{5/4}$

8.  $27^{-4/3}$

Simplify

9.  $\left(\frac{1}{36}\right)^{1/2}$

10.  $\sqrt[4]{80}$

Simplify

11.  $\sqrt[4]{81}$

12.  $\sqrt[4]{625}$

13.  $(6^{1/2} \cdot 2^{1/3})^6$

14.  $\frac{36^{4/5}}{36^{3/10}}$

15.  $\sqrt[5]{32x^5}$

Solve

16.  $\sqrt[3]{x-7} = -3$

17.  $\sqrt[4]{3x} + 5 = 8$

18.  $\sqrt[5]{2x} - 4 = -2$

19. Write  $3^4 = 81$  in log form

20.  $\log_6 216 =$