

Name \_\_\_\_\_

Due Date \_\_\_\_\_

Block \_\_\_\_\_

## Exponents and Logarithms #2

Rewrite each expression using rational exponents:

1.  $\sqrt[4]{5}$

2.  $\sqrt[3]{7}$

3.  $\sqrt{44}$

4.  $\sqrt[6]{84}$

5.  $\sqrt[3]{8^3}$

6.  $\sqrt[3]{5^4}$

Rewrite the expression using rational exponents. Then use the laws of exponents to simplify. Write your answer in radical form.

7.  $\sqrt{54}$

8.  $\sqrt[4]{16}$

9.  $\sqrt[4]{32}$

10.  $\sqrt[3]{4^3 \cdot 8}$

11.  $\sqrt[3]{x^3 y^2 z^5}$

12.  $\sqrt{x^2 + 2x + 1}$