

Chapter 6.1 and 6.2 Quiz Review

Date _____ Period _____

Simplify.

1) $\sqrt{192}$

2) $\sqrt{-24}$

3) $\sqrt[4]{64}$

4) $\sqrt[3]{-48}$

5) $\sqrt{54m^4n^3}$

6) $\sqrt{32x^3y}$

7) $\sqrt[3]{24m^2n^8}$

8) $(\sqrt{x})^2$

9) $2\sqrt{5} \cdot 3\sqrt{8}$

10) $\sqrt[3]{4} \cdot \sqrt[3]{2}$

Solve each equation by taking square roots.

11) $x^2 = 55$

12) $r^2 + 2 = 99$

13) $9x^2 + 4 = 580$

14) $10 - 8n^2 = -278$

Simplify.

15) $\frac{1}{\sqrt{5}}$

16) $\sqrt{\frac{3}{16}}$

17) $\frac{\sqrt{27}}{\sqrt{3}}$

18) $\sqrt{\frac{54}{6}}$