

Practice 7-1/7.2**Roots and Radical Expressions**

Simplify each radical expression. Assume that all variables are positive.

1. $\sqrt{81x^4}$

2. $\sqrt{121y^{10}}$

3. $\sqrt[3]{8g^6}$

4. $\sqrt{125x^9}$

5. $\sqrt[3]{243x^5y^{15}}$

6. $\sqrt[3]{\frac{64x^9}{343}}$

7. $\sqrt{36x^3}$

8. $\sqrt{125y^2z^4}$

9. $\sqrt{18k^6}$

10. $\sqrt{-16a^{12}}$

11. $\sqrt{x^2y^{10}z}$

12. $\sqrt[3]{256s^7t^{12}}$

13. $\sqrt{216x^4y^3}$

14. $\sqrt{75r^3}$

15. $\sqrt{625u^5v^8}$