

6-4: nth Roots (Practice)**Simplify.**

1. $\sqrt{0.81}$

7. $-\sqrt[4]{1296}$

2. $-\sqrt{324}$

8. $\sqrt[5]{\frac{-1024}{243}}$

3. $-\sqrt[4]{256}$

9. $\sqrt[5]{243x^{10}}$

4. $\sqrt[6]{64}$

10. $\sqrt{-(14a)^2}$

5. $\sqrt[3]{-64}$

11. $\sqrt[3]{-64r^2w^{15}}$

6. $\sqrt[5]{-32}$

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

6-4: nth Roots (Practice)

13. $-\sqrt[4]{625s^8}$

Use a calculator to approximate each value to three decimal places.

19. $\sqrt{7.8}$

14. $\sqrt[3]{216p^3q^9}$

20. $-\sqrt{89}$

15. $\sqrt[3]{-27x^9y^{12}}$

21. $\sqrt[3]{25}$

16. $\sqrt[5]{-32x^5y^{10}}$

22. $\sqrt[3]{-4}$

17. $\sqrt[3]{(2x+1)^3}$

23. $\sqrt[4]{1.1}$

18. $\sqrt[4]{(x-5)^8}$

24. $\sqrt[5]{-0.1}$