

EXTRA PRACTICE — Exercises

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Unit VII – Relations of Rational Number Degree Part A – Rational Numbers as Exponents Lesson 2 – Odd and Even “Kth” Roots

For each of the following, find the indicated root or roots, if they exist..

1. $\sqrt{36}$

2. $-\sqrt{36}$

3. $\sqrt{-1}$

4. $\sqrt{0.36}$

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

6. $\sqrt[5]{\frac{32}{243}}$

7. $\sqrt[5]{(-3)^5}$

8. $\sqrt{0.25x^6}$

9. $\sqrt[9]{-1}$

10. $\sqrt[6]{729}$

11. $\pm\sqrt{289}$

12. $\sqrt{64b^{48}}$

13. $\pm\sqrt{361}$

14. $-\sqrt[13]{-1}$

15. $-\sqrt[3]{-27}$

16. $\sqrt{x^{80}y^{50}}$

17. $\sqrt[3]{-64a^{81}}$

18. $\sqrt{t^{22}}$

19. $\sqrt[3]{(x^2 - 6x + 9)^{12}}$

20. $-\sqrt{900}$

EXTRA PRACTICE — Answer Key

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For each of the following, find the indicated root or roots, if they exist..

1. 6

2. -6

3. $\sqrt{-1}$ is not possible for real numbers

4. 0.6

5. 4

6. $\frac{2}{3}$

7. -3

8. $.5x^3$

9. -1

10. 3

11. ± 17

12. $8b^{24}$

13. ± 19

14. 1

15. 3

16. $x^{40}y^{25}$

17. $-4a^{27}$

18. t^{11}

19. $(x - 3)^8$

20. -30