

16. $6^{\frac{1}{2}}$ $\sqrt[2]{6}$

17. $4^{\frac{2}{3}}$ $\sqrt[3]{4^2}$

18. $625^{\frac{3}{4}}$ $\sqrt[4]{625^3}$

Now try writing each of the following radical expressions as rational expressions (*non radical form*).

19. $\sqrt[3]{10^9}$ $10^{\frac{9}{3}}$
 10^3

20. $\sqrt[3]{5^3}$ $5^{\frac{3}{3}} = 5^1$

21. $(\sqrt[3]{81})^3$ $\sqrt[3]{81^3}$
 $81^{\frac{3}{3}}$

Rational exponents follow the same properties as whole number exponents, thus you can apply the Power Property, the Product Property, the Quotient Property as before.

Simplify the following (*without using your calculator*).

22. $\sqrt[3]{8x^3}$
 $\sqrt[3]{8} \cdot \sqrt[3]{x^3}$
 $2x$

23. $\sqrt{\frac{36}{16}}$
 $\frac{\sqrt{36}}{\sqrt{16}} = \frac{6}{4}$

24. $2^3 \cdot 2^5$
 2^8

25. $\frac{(3x)^4}{(3x)^2}$
 $(3x)^2$
 $9x^2$

26. $(5^2)^2$
 5^4

27. $\left(\frac{8x^3}{27}\right)^{\frac{1}{3}}$
 $\frac{\sqrt[3]{8x^3}}{\sqrt[3]{27}}$

28. $\sqrt{\frac{8x^2}{2x^4}}$
 $\frac{\sqrt{8x^2}}{\sqrt{2x^4}}$
 $\frac{\sqrt{8} \cdot \sqrt{x^2}}{\sqrt{2} \cdot \sqrt{x^4}}$
 $\frac{\sqrt{8}}{\sqrt{2}} \cdot \frac{x}{x^2}$

29. $2 \cdot \left(\frac{1}{8}\right)^{\frac{1}{3}}$
 $2 \cdot \left(\frac{1}{2}\right)$
 1

30. $(\sqrt{25x^2})^3$
 $(5x)^3$
 $125x^3$

31. $4^{\frac{3}{2}} \cdot 4^{\frac{1}{2}}$
 $4^{\frac{3}{2} + \frac{1}{2}} = 4^2$

32. $\frac{27^{\frac{4}{3}}}{27^{\frac{2}{3}}}$
 $27^{\frac{4}{3} - \frac{2}{3}}$

33. $\left(125^{\frac{2}{3}}\right)^{\frac{3}{2}}$
 $(125^{\frac{2}{3} \cdot \frac{3}{2}})$
 $\sqrt[3]{125^2}$
 5

34. $(27 \cdot 64)^{\frac{2}{3}}$
 $(\sqrt[3]{27} \cdot \sqrt[3]{64})^2$
 $(3 \cdot 4)^2 = 144$

35. $\left(\frac{1}{243}\right)^{\frac{1}{5}}$
 $\sqrt[5]{\frac{1}{243}}$

36. $64^{-\frac{1}{2}}$
 $\frac{1}{\sqrt{64}}$
 $= \frac{1}{4}$

37. $(-27x^6)^{\frac{1}{3}}$
 $\sqrt[3]{-27} \cdot \sqrt[3]{x^6}$
 $-3 \cdot x^2$
 $-3x^2$

38. $\frac{(25x)^{\frac{3}{2}}}{5 \cdot x^{\frac{1}{2}}}$
 $\frac{5^3 \cdot x^{\frac{3}{2}}}{5^1 \cdot x^{\frac{1}{2}}} = 5^2 x$
 $25x$

39. $(4x)^{-\frac{1}{2}} \cdot (9x)^{\frac{1}{2}}$
 $\frac{(4x)^{\frac{1}{2}}}{(4x)^{\frac{1}{2}}} \cdot \frac{3}{2} = \frac{3}{2}$

Exponential And Radical Equations Kuta

Y Pai



Exponential And Radical Equations Kuta:

The book delves into Exponential And Radical Equations Kuta. Exponential And Radical Equations Kuta is an essential topic that needs to be grasped by everyone, ranging from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Exponential And Radical Equations Kuta, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:

- Chapter 1: Introduction to Exponential And Radical Equations Kuta
- Chapter 2: Essential Elements of Exponential And Radical Equations Kuta
- Chapter 3: Exponential And Radical Equations Kuta in Everyday Life
- Chapter 4: Exponential And Radical Equations Kuta in Specific Contexts
- Chapter 5: Conclusion

2. In chapter 1, this book will provide an overview of Exponential And Radical Equations Kuta. The first chapter will explore what Exponential And Radical Equations Kuta is, why Exponential And Radical Equations Kuta is vital, and how to effectively learn about Exponential And Radical Equations Kuta.
3. In chapter 2, the author will delve into the foundational concepts of Exponential And Radical Equations Kuta. The second chapter will elucidate the essential principles that need to be understood to grasp Exponential And Radical Equations Kuta in its entirety.
4. In chapter 3, this book will examine the practical applications of Exponential And Radical Equations Kuta in daily life. The third chapter will showcase real-world examples of how Exponential And Radical Equations Kuta can be effectively utilized in everyday scenarios.
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- The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Exponential And Radical Equations Kuta.

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