

rules of radicals

rules of radicals are essential mathematical principles that form the foundation for simplifying, manipulating, and understanding radical expressions. Whether you are a student, educator, or someone preparing for standardized exams, mastering the rules of radicals can greatly enhance your ability to solve various algebraic problems. This article provides a comprehensive overview of what radicals are, the fundamental rules governing their use, and practical strategies for simplifying radical expressions. We will explore product and quotient rules, rationalizing denominators, and common mistakes to avoid. By the end, you will have a thorough understanding of the rules of radicals, empowering you to handle radical expressions with confidence and accuracy.

- Understanding Radicals: Definitions and Concepts
- Key Rules of Radicals Explained
- Product Rule for Radicals
- Quotient Rule for Radicals
- Rationalizing the Denominator
- Common Mistakes and How to Avoid Them
- Practical Applications of Radical Rules

Understanding Radicals: Definitions and Concepts

To grasp the rules of radicals, it is important to start with the basics. A radical expression typically involves a root, such as a square root, cube root, or higher-order root. The radical sign ($\sqrt{}$) indicates the operation of finding a root of a number or variable. The number inside the radical sign is called the radicand, and the small number above the radical sign (the index) specifies the degree of the root. If no index is shown, it is assumed to be a square root.

Radicals are widely used in mathematics to represent quantities that cannot be expressed as exact integers or fractions. They play a crucial role in algebra, geometry, trigonometry, and calculus. Understanding how to manipulate radicals using specific rules is essential for simplifying complex expressions, solving equations, and performing operations involving roots.

Key Rules of Radicals Explained

The rules of radicals are a set of algebraic guidelines that dictate how to simplify, combine, and manipulate radical expressions systematically. These rules ensure that radicals are handled correctly and consistently, making them easier to work with in various mathematical contexts. Some of the most fundamental rules include the product rule, quotient rule, power rule, and the concept of rationalizing the denominator.

These rules also help in combining like terms, reducing expressions to their simplest form, and understanding the relationships between different radical terms. Applying the rules of radicals appropriately enhances accuracy and efficiency in mathematical problem-solving.

Product Rule for Radicals

The product rule for radicals is a fundamental property that allows multiplication of two radicals with the same index. According to this rule, the product of two radicals is equal to the radical of their product. Mathematically, for non-negative real numbers a and b , and for any positive integer n :

- $\sqrt[n]{a} \times \sqrt[n]{b} = \sqrt[n]{a \times b}$
- $\sqrt[n]{a} \times \sqrt[n]{b} = \sqrt[n]{a \times b}$

This rule is especially helpful when simplifying expressions that involve multiple radical terms. It allows the combination of radicals into a single expression, making calculations more straightforward. However, it is important that the indices of the radicals are the same before applying this rule.

Quotient Rule for Radicals

The quotient rule for radicals is another key principle that allows division of two radicals with the same index. This rule states that the quotient of two radicals is equal to the radical of their quotient. For any non-negative real numbers a and b (where $b \neq 0$), and for any positive integer n :

- $\sqrt[n]{a} \div \sqrt[n]{b} = \sqrt[n]{a \div b}$
- $\sqrt[n]{a} \div \sqrt[n]{b} = \sqrt[n]{a \div b}$

Using the quotient rule simplifies radical expressions involving division and is vital for reducing complex fractions. As with the product rule, ensure that the indices are the same

before using this rule. Understanding the quotient rule makes it easier to work with rational expressions under radicals.

Rationalizing the Denominator

Rationalizing the denominator is a process used to eliminate radicals from the bottom of a fraction. Many mathematical conventions prefer expressions without radicals in the denominator for simplicity and standardization. To rationalize, multiply both the numerator and denominator by a suitable value that removes the radical from the denominator.

- If the denominator is $\sqrt{b}$, multiply numerator and denominator by $\sqrt{b}$.
- If the denominator is a binomial with a radical, such as $(a + \sqrt{b})$, multiply by its conjugate $(a - \sqrt{b})$.

Rationalizing the denominator is particularly important in higher mathematics, ensuring that expressions are presented in their simplest and most conventional form. Mastery of this process is a key component of understanding the rules of radicals.

Common Mistakes and How to Avoid Them

While applying the rules of radicals, certain errors are commonly made. Awareness of these mistakes can prevent confusion and inaccuracies in calculations. Some of the most frequent errors include:

- Combining radicals with different indices or different radicands.
- Incorrectly multiplying or dividing radicals with unlike indices.
- Neglecting to simplify the radicand before or after applying rules.
- Forgetting to rationalize the denominator when required.
- Mistaking the sum or difference for the product or quotient rule (e.g., $\sqrt{a} + \sqrt{b} \neq \sqrt{a+b}$).

To avoid these mistakes, always check the indices, ensure the rules are being applied correctly, and simplify expressions at every step. Consistent practice and careful attention to detail will improve proficiency with radical expressions.

Practical Applications of Radical Rules

The rules of radicals are not restricted to theoretical mathematics; they find applications in various real-world contexts and advanced mathematical fields. Understanding these rules is crucial for solving geometric problems involving lengths and areas, working with quadratic equations, and analyzing scientific measurements.

- Calculating distances using the Pythagorean theorem in geometry.
- Solving quadratic equations that yield irrational solutions.
- Interpreting results in physics and engineering where roots are involved.
- Simplifying algebraic expressions in calculus and higher mathematics.

Competence in applying the rules of radicals is a valuable skill, supporting academic success and practical problem-solving in science, technology, engineering, and mathematics.

Q: What are the basic rules of radicals?

A: The basic rules of radicals include the product rule ($\sqrt{a} \times \sqrt{b} = \sqrt{a \times b}$), the quotient rule ($\sqrt{a} \div \sqrt{b} = \sqrt{a \div b}$), the power rule, and rationalizing the denominator. Mastery of these rules allows for the proper simplification and manipulation of radical expressions.

Q: Why is it important to have the same index when applying the product or quotient rule for radicals?

A: The product and quotient rules for radicals require the same index because the operations are only valid when the roots being combined are of the same type. Using different indices would result in incorrect simplifications.

Q: Can you add or subtract radicals with different radicands?

A: No, you cannot directly add or subtract radicals with different radicands. Only like radicals, which have the same index and the same radicand, can be combined through addition or subtraction.

Q: What does it mean to rationalize the denominator?

A: Rationalizing the denominator means eliminating any radicals from the bottom of a fraction by multiplying both the numerator and denominator by a suitable value that

makes the denominator a rational number.

Q: How do you simplify a radical expression?

A: To simplify a radical expression, factor the radicand to identify perfect squares (or cubes, etc.), apply the rules of radicals such as the product and quotient rules, and reduce the expression to its simplest form, ensuring no radical remains in the denominator if possible.

Q: What are some common mistakes when working with radicals?

A: Common mistakes include combining unlike radicals, using the sum or difference instead of the product or quotient rule, not simplifying the radicand, and failing to rationalize the denominator.

Q: Where are rules of radicals used in real life?

A: Rules of radicals are used in geometry for calculating distances, in physics for solving equations involving roots, in engineering for analyzing measurements, and in various fields that require precise mathematical calculations.

Q: Is it possible to multiply radicals with different indices?

A: Radicals with different indices cannot be multiplied directly. To combine them, you must first rewrite them to have a common index, usually by converting each radical to an exponential form with fractional exponents.

Q: What is the index of a radical, and why does it matter?

A: The index of a radical specifies the degree of the root (e.g., square root, cube root). It is crucial because it determines how the radical is simplified and which rules can be applied during operations.

Q: How do you handle negative numbers under a radical?

A: For even indices (like square roots), negative numbers under the radical are not real numbers and result in imaginary numbers. For odd indices (like cube roots), negative numbers under the radical yield negative real results.

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Rules of Radicals: Mastering the Fundamentals of Radical Simplification

Are you struggling to simplify radical expressions? Do you find yourself overwhelmed by square roots, cube roots, and beyond? Then you've come to the right place! This comprehensive guide will break down the rules of radicals into manageable steps, equipping you with the knowledge and confidence to tackle even the most complex radical expressions. We'll explore the fundamental rules, offer practical examples, and provide you with the tools you need to master this crucial algebraic concept.

Understanding What Radicals Are

Before diving into the rules, let's clarify what we mean by "radicals." In mathematics, a radical expression involves a root symbol ($\sqrt{}$), indicating the extraction of a root from a number or variable. The number inside the root symbol is called the radicand. The small number above the root symbol (the index) specifies the type of root, such as square root (index 2, often omitted), cube root (index 3), fourth root (index 4), and so on. For example, $\sqrt{9}$ (square root of 9) = 3, and $\sqrt[3]{8}$ (cube root of 8) = 2.

Key Rules of Radicals: A Comprehensive Guide

Now, let's delve into the essential rules governing radical simplification:

1. Product Rule for Radicals:

This rule states that the square root (or nth root) of a product is equal to the product of the square roots (or nth roots). Mathematically, it can be expressed as: $\sqrt{ab} = \sqrt{a} \sqrt{b}$ (and similarly for nth roots). This rule allows us to simplify radicals by breaking down the radicand into smaller, more manageable factors.

Example: $\sqrt{12} = \sqrt{4 \cdot 3} = \sqrt{4} \sqrt{3} = 2\sqrt{3}$

2. Quotient Rule for Radicals:

Similar to the product rule, the quotient rule states that the square root (or nth root) of a quotient is equal to the quotient of the square roots (or nth roots). The formula is: $\sqrt{a/b} = \sqrt{a} / \sqrt{b}$ (and similarly for nth roots). This is incredibly useful for simplifying fractions within radicals.

Example: $\sqrt{9/4} = \sqrt{9} / \sqrt{4} = 3/2$

3. Simplifying Radicals by Factoring:

This involves finding perfect squares (or perfect cubes, etc.) within the radicand and extracting their roots. This is often combined with the product rule to simplify complex expressions.

Example: $\sqrt{75} = \sqrt{25 \cdot 3} = \sqrt{25} \sqrt{3} = 5\sqrt{3}$

4. Rationalizing the Denominator:

This technique eliminates radicals from the denominator of a fraction. It's achieved by multiplying both the numerator and the denominator by a carefully chosen expression that eliminates the radical in the denominator.

Example: $1/\sqrt{2}$ is rationalized by multiplying by $\sqrt{2}/\sqrt{2}$, resulting in $\sqrt{2}/2$

5. Adding and Subtracting Radicals:

Radicals can only be added or subtracted if they have the same radicand and index. Think of them like combining like terms.

Example: $2\sqrt{5} + 3\sqrt{5} = 5\sqrt{5}$, but $2\sqrt{5} + 3\sqrt{2}$ cannot be simplified further.

Advanced Techniques and Applications

Beyond the fundamental rules, mastering radicals involves applying these rules in combination and understanding their application in more complex algebraic manipulations, such as solving equations involving radicals and simplifying expressions with variables.

Working with Variables:

The rules of radicals apply equally to expressions containing variables. Remember to always consider the possibility of negative numbers within even-indexed roots.

Example: $\sqrt{x^2y^4} = |x|y^2$ (The absolute value of x accounts for potential negative values of x).

Practical Applications of Radical Simplification

The ability to simplify radical expressions isn't just an academic exercise; it's a fundamental skill used extensively in various fields, including:

Geometry: Calculating lengths, areas, and volumes often involve radical expressions.

Physics: Many physics formulas include radicals, especially those dealing with vectors and motion.

Engineering: Radical expressions are commonly found in structural calculations and other engineering applications.

Conclusion

Mastering the rules of radicals is a cornerstone of algebraic fluency. By understanding and applying these rules, you'll enhance your problem-solving skills and gain a deeper appreciation of mathematical principles. Remember to practice regularly, focusing on each rule individually before tackling more complex problems. With consistent effort, you'll confidently navigate the world of radical expressions.

FAQs

1. What is the difference between a square root and a cube root? A square root finds a number that, when multiplied by itself, equals the radicand (index 2). A cube root finds a number that, when multiplied by itself three times, equals the radicand (index 3).
2. Can a radical ever have a negative value? The principal square root of a positive number is always positive. However, equations like $x^2 = 9$ have two solutions: $x = 3$ and $x = -3$. Cube roots can be negative if the radicand is negative.
3. How do I simplify radicals with variables? Apply the same rules as with numbers, but remember to consider the absolute value when dealing with even-indexed roots of variables.
4. Why is rationalizing the denominator important? It simplifies expressions and makes them easier to work with, especially in calculus and other advanced mathematics.
5. Are there any online resources to help me practice? Many websites and educational platforms offer interactive exercises and tutorials on simplifying radical expressions. Search for "radical simplification practice problems" to find suitable resources.

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constructive social change and know “the difference between being a realistic radical and being a rhetorical one.” First published in 1971 and written in the midst of radical political developments whose direction Alinsky was one of the first to question, this volume exhibits his style at its best. Like Thomas Paine before him, Alinsky was able to combine, both in his person and his writing, the intensity of political engagement with an absolute insistence on rational political discourse and adherence to the American democratic tradition.

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rules of radicals: Rules for Radical Conservatives David Kahane, 2010 Are you a frustrated conservative shocked by the bunch of far Left fanatics driving the bus--and our future--off a cliff? It's time to fight back with the same ruthlessness that has served the radicals so well--not just now, but for the long term. And who better to reveal their strategies--and their fatal weaknesses--than one of their own? Playing on his all-too-typical hubris and good old greed, we've recruited well-known liberal apparatchik David Kahane to lead conservatives out of the political wilderness, whether he means to or not. Is he arrogant and obnoxious? Absolutely. Does he deliver the goods? You betcha. We'll let Dave speak for himself: Please allow me to introduce myself. . . . My name is David and I'm going to share some secrets. I'm going to take you into the smoke-free back rooms of today's progressive political machine to reveal how it really operates--and how you can bring it down. I'll lay out the rules we radicals have used to run circles around you, and clue you in on how to make them work for you, too. How do I know this stuff? As the son of the sainted Che Kahane, I've been schooled in the art of seizing and holding political power as we transform America one antiquated

tradition and constitutional clause at a time. Now I work in Hollywood, where I've perfected the game pioneered by such pros as Machiavelli, Saul Alinsky, and Al Capone, father of the immortal Chicago Way. Read on and learn from our time-tested techniques: * Know your enemy, his intentions, his weapons, and his weaknesses. You too can play relentless, on-message hardball with every scandal, hypocrisy, lie, and fundamentally flawed policy your adversaries dish up. * Become what you behold. Adopt some of our scorched-earth tactics, best described in David Mamet's *Untouchables*: They pull a knife, you pull a gun. * Take no prisoners. Attack our premises, expose their true nature and consequences, and pin them on us, hard. * Never cede anything to the other side, philosophically speaking. Force the Left to argue facts, not emotions. We hate that. * Treat us with the same respect we give you. None. * It is better to be feared than liked, especially by your enemies. And it helps to show up for the fight. (Note to past and future Republican candidates.) Why am I telling you all this? Because I thrive on making trouble and, frankly, because I'm proud of what my team has done. Between us, I don't think it matters if I turn over our playbook to you at this late date. I don't think you can get it together to stop us now. Plus, I got a lot of money. Happy reading, America! You think you can take us down? Go for it. I dare you.

rules of radicals: Rules for Radicals Saul David Alinsky, 1971

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rules of radicals: Elinor Ostrom's Rules for Radicals Derek Wall, 2017 Elinor Ostrom was the first woman to win the Nobel Prize for Economics. Her theorising of the commons has been celebrated as groundbreaking and opening the way for non-capitalist economic alternatives, yet, many radicals know little about her. This book redresses this, revealing the indispensability of her work for green politics, left economics and radical democracy. Ostrom has often been viewed as a conservative or managerial thinker; but Derek Wall's analysis of her work reveals a how it is invaluable for developing a left political programme in the twenty-first century. Central to Ostrom's work was the move 'beyond panaceas'; transforming institutions to widen participation, promote diversity and favour cooperation over competition. She regularly challenged academia as individualist, narrow and elitist and promoted a radical take on education, based on participation. Her investigations into how we share finite resources has radical implications for the Green movement and her rubric for a functioning collective ownership is highly relevant in order in achieving radical social change. As activists continue to reject traditional models of centralised power, Ostrom's work will become even more vital, offering a guide to creating economics that exists beyond markets and states.

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points the way forward to a future where political revolution is truly possible.

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These rules are based on original insights from the fields of political science, psychology, criminology, economics, management, marketing, communication, and sociology. It turns out thereâs a science to victory in militant history. But even rebels must follow rules.

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this material a prerequisite, other institutions have told us that they have a cohort that need the prerequisite skills built into the course. Chapter 1: Prerequisites Chapter 2: Equations and Inequalities Chapters 3-6: The Algebraic Functions Chapter 3: Functions Chapter 4: Linear Functions Chapter 5: Polynomial and Rational Functions Chapter 6: Exponential and Logarithm Functions Chapters 7-9: Further Study in College Algebra Chapter 7: Systems of Equations and Inequalities Chapter 8: Analytic Geometry Chapter 9: Sequences, Probability and Counting Theory

rules of radicals: Rules for Radical Christians: 10 Biblical Disciplines for Influential Believers Doug Giles, 2018-04-16 Dear Young Christian: The tolerant society in which you live is intolerant of your Biblical Worldview. So what's the young Christian to do? Well, You could huddle together in a Christian subculture and pray that Christ would come quickly and rapture you out of this mess. Or, you could compromise your godly principles, become spiritual chameleons and allow your relationship with God to be governed by CNN. Or, you can become strategically equipped to move into an anti-theistic environment and effectively influence it for the glory of God. Rules For Radical Christians argues for the last option. Rules For Radical Christians is not a survival devotional designed to help the young Christian adult limp through life. Rather, it is a road-tested, dominion blueprint that will equip the young adult with leadership skills and sufficient motivation to rise to a place of influence in an overtly non-Christian culture.

rules of radicals: Democracy in Chains Nancy MacLean, 2018-06-05 Winner of the Lillian Smith Book Award Winner of the Los Angeles Times Book Prize Finalist for the National Book Award The Nation's Most Valuable Book "[A] vibrant intellectual history of the radical right."—The Atlantic "This sixty-year campaign to make libertarianism mainstream and eventually take the government itself is at the heart of Democracy in Chains. . . . If you're worried about what all this means for America's future, you should be."—NPR An explosive exposé of the right's relentless campaign to eliminate unions, suppress voting, privatize public education, stop action on climate change, and alter the Constitution. Behind today's headlines of billionaires taking over our government is a secretive political establishment with long, deep, and troubling roots. The capitalist radical right has been working not simply to change who rules, but to fundamentally alter the rules of democratic governance. But billionaires did not launch this movement; a white intellectual in the embattled Jim Crow South did. Democracy in Chains names its true architect—the Nobel Prize-winning political economist James McGill Buchanan—and dissects the operation he and his colleagues designed over six decades to alter every branch of government to disempower the majority. In a brilliant and engrossing narrative, Nancy MacLean shows how Buchanan forged his ideas about government in a last gasp attempt to preserve the white elite's power in the wake of Brown v. Board of Education. In response to the widening of American democracy, he developed a brilliant, if diabolical, plan to undermine the ability of the majority to use its numbers to level the playing field between the rich and powerful and the rest of us. Corporate donors and their right-wing foundations were only too eager to support Buchanan's work in teaching others how to divide America into "makers" and "takers." And when a multibillionaire on a messianic mission to rewrite the social contract of the modern world, Charles Koch, discovered Buchanan, he created a vast, relentless, and multi-armed machine to carry out Buchanan's strategy. Without Buchanan's ideas and Koch's money, the libertarian right would not have succeeded in its stealth takeover of the Republican Party as a delivery mechanism. Now, with Mike Pence as Vice President, the cause has a longtime loyalist in the White House, not to mention a phalanx of Republicans in the House, the Senate, a majority of state governments, and the courts, all carrying out the plan. That plan includes harsher laws to undermine unions, privatizing everything from schools to health care and Social Security, and keeping as many of us as possible from voting. Based on ten years of unique research, Democracy in Chains tells a chilling story of right-wing academics and big money run amok. This revelatory work of scholarship is also a call to arms to protect the achievements of twentieth-century American self-government.

rules of radicals: Rhetoric for Radicals Jason Del Gandio, 2008-11-01 Rhetoric for Radicals is intended for college-aged activists and organizers, and for the most part it's written in a relaxed,

approachable style. It does get a bit cerebral and academic in places - in demonstrating how the book builds on the previous literature - but this material is kept to a minimum. On the whole, *Rhetoric for Radicals* is an invaluable, comprehensive how-to book that will greatly benefit beginning and seasoned rhetors alike. *Rhetoric for Radicals* concludes on a hopeful note, with the wish that its activist readership will internalize the book's rhetorical tools and tactics, and will be that much better equipped to become the rhetors of the past who created the future. And indeed, there can be but little doubt that this thorough, well-organized, accessible - and even personal - little handbook is the best instrument imaginable for fulfilling this purpose. - Frank Kaminski, *EnergyBulletin.net*

Radicals have important messages to deliver, but they are often so caught up in the passion of their causes that they lose sight of effective communication—which is their most powerful tool. The ability to speak with clarity and intelligence, without underestimating the challenge of breaking new ground and winning new converts, is crucial. Activists often suffer from a credibility gap because of their lack of a coherent message and strategic delivery. *Rhetoric for Radicals* addresses and helps solve these problems. It provides the tools to develop the all-important communication skills necessary to be effectively heard. If you accept that communication creates the social world, then you will agree that changing the way we communicate can change the world. *Rhetoric for Radicals* provides practical guidelines for public speaking, writing, conversation, persuasion, political correctness, propaganda analysis, street theatrics, and new languages. Chapters include: Streets, Rhetoric, and Revolution A Call for Rhetorical Action Skills for the Multitude The Power of Language Body Rhetoric Twenty-First Century Radical Rhetoric Geared to college-aged radical activists and organizers, this book will also appeal to activists of any age who want to sharpen their message. Jason Del Gandio is a lecturer at Temple University in Philadelphia. He is a post-Seattle activist who has worked on globalization and free/fair trade issues, anti-war campaigns, and Latin American solidarity.

rules of radicals: Let Them Call Me Rebel Sandord D. Horwitt, 1992-03-31 In the course of his flamboyant career as an all-purpose activist, Saul Alinsky went from organizing working-class ethnics in one of Chicago's most blighted neighborhoods to mapping out strategies for the civil rights and antiwar movements of the 1960s. He enlisted allies—from Catholic clergymen to labor unionists and black activists, in battles waged against opponents from slumlords to the Eastman Kodak corporation. The range of Alinsky's activities, the intensity of his beliefs, and his exhilarating mixture of crudeness and calculation almost vibrate off the pages of this passionate and inspiring biography. This is an important account of a complex and idiosyncratic urban populist who insisted that power was the keystone of social change. Horwitt . . . produce[s] a comprehensive appraisal of Alinsky's colorful confrontational tactics; as a community organizer and his influence on a succeeding generation of social activists . . . An insightful and well-written study."—Library Journal

rules of radicals: Rules for Retrogrades Timothy J. Gordon, David R. Gordon, 2020-03-20 What is a retrograde? In the words of Shakespeare, a retrograde is one of God's spies. The retrograde has the unique capacity for understanding the stark chasm between the degenerate, socialist-infiltrated world of decay on one side and the well-meaning, good-hearted, but clueless Christian world on the other.

rules of radicals: Shy Radicals Hamja Ahsan, 2017-02-17 Drawing together communiques, covert interviews and underground histories of introvert struggles (Introfada), here for the first time is a detailed documentation of the political demands of shy people. Radicalized against the imperial domination of globalized PR projectionism, extrovert poise and loudness, the Shy Radicals are a vanguard movement intent on trans-rupting the extrovert-supremacist politics and assertiveness culture of the 21st-century. The movement aims to establish an independent homeland Aspergistan, a utopian state for introverted people, run according to Shyria Law and underpinned by Pan-Shyist ideology, protecting the rights of the oppressed quiet and shy people. This anti-systemic manifesto, a quiet and thoughtful polemic, is a satire that uses anti-colonial theory to build a critique of dominant culture and the rising tide of Islamophobia. Shy Radicals author Hamja Ahsan (b. 1981) is an artist, curator and activist based in London. He is the Free Talha Ahsan campaign organizer.

rules of radicals: *The Haitian Revolution* Toussaint L'Ouverture, 2019-11-12 Toussaint L'Ouverture was the leader of the Haitian Revolution in the late eighteenth century, in which slaves rebelled against their masters and established the first black republic. In this collection of his writings and speeches, former Haitian politician Jean-Bertrand Aristide demonstrates L'Ouverture's profound contribution to the struggle for equality.

rules of radicals: Which One Doesn't Belong? Christopher Danielson, 2019-02-12 Talking math with your child is simple and even entertaining with this better approach to shapes! Written by a celebrated math educator, this innovative inquiry encourages critical thinking and sparks memorable mathematical conversations. Children and their parents answer the same question about each set of four shapes: Which one doesn't belong? There's no one right answer--the important thing is to have a reason why. Kids might describe the shapes as squished, smooshed, dented, or even goofy. But when they justify their thinking, they're talking math! Winner of the Mathical Book Prize for books that inspire children to see math all around them. This is one shape book that will both challenge readers' thinking and encourage them to think outside the box.--Kirkus Reviews, STARRED review

rules of radicals: Radical Nicholas Von Hoffman, 2011-02 The tactics and strategy of Alinsky, who died in 1972, have been studied by people as diverse as Barack Obama, Cesar Chavez, Hilary Clinton, Dick Armey, the Tea Partiers and activists and organizers of every persuasion. Thousands of organizations a...

rules of radicals: Red-Handed Peter Schweizer, 2022-01-25 #1 New York Times Bestseller ?Peter Schweizer says that, in a quarter-century as an investigative journalist, this is the scariest investigation he has ever conducted. That the Chinese government seeks to infiltrate American institutions is hardly surprising. What is wholly new, however, are the number of American elites who are eager to help the Chinese dictatorship in its quest for global hegemony. Presidential families, Silicon Valley gurus, Wall Street high rollers, Ivy League universities, even professional athletes—all willing to sacrifice American strength and security on the altar of personal enrichment. In *Red-Handed*, six-time New York Times bestselling investigator Peter Schweizer presents his most alarming findings to date by revealing the secret deals wealthy Americans have cut to help China build its military, technological, and economic might. Equally as astonishing, many of these elites quietly believe the Chinese dictatorial regime is superior to American democracy. Schweizer and his team of forensic investigators spent over a year scouring a massive trove of global corporate records and legal filings to expose the hidden transactions China's enablers hoped would never see the light of day. And as Schweizer's past bombshells like *Profiles in Corruption*, *Secret Empires*, and *Clinton Cash* all made clear, there are bad actors on both ends of the political spectrum. Exhaustively researched, crisply told, and chilling, *Red-Handed* will expose the nexus of power between the Chinese government and the American elites who do its bidding.

rules of radicals: The Quiet Before Gal Beckerman, 2022-02-15 NEW YORK TIMES EDITORS' CHOICE • An "elegantly argued and exuberantly narrated" (The New York Times Book Review) look at the building of social movements—from the 1600s to the present—and how current technology is undermining them "A bravura work of scholarship and reporting, featuring amazing individuals and dramatic events from seventeenth-century France to Rome, Moscow, Cairo, and contemporary Minneapolis."—Louis Menand, author of *The Free World* We tend to think of revolutions as loud: frustrations and demands shouted in the streets. But the ideas fueling them have traditionally been conceived in much quieter spaces, in the small, secluded corners where a vanguard can whisper among themselves, imagine alternate realities, and deliberate about how to achieve their goals. This extraordinary book is a search for those spaces, over centuries and across continents, and a warning that—in a world dominated by social media—they might soon go extinct. Gal Beckerman, an editor at The New York Times Book Review, takes us back to the seventeenth century, to the correspondence that jump-started the scientific revolution, and then forward through time to examine engines of social change: the petitions that secured the right to vote in 1830s Britain, the zines that gave voice to women's rage in the early 1990s, and even the messaging apps used by epidemiologists fighting

the pandemic in the shadow of an inept administration. In each case, Beckerman shows that our most defining social movements—from decolonization to feminism—were formed in quiet, closed networks that allowed a small group to incubate their ideas before broadcasting them widely. But Facebook and Twitter are replacing these productive, private spaces, to the detriment of activists around the world. Why did the Arab Spring fall apart? Why did Occupy Wall Street never gain traction? Has Black Lives Matter lived up to its full potential? Beckerman reveals what this new social media ecosystem lacks—everything from patience to focus—and offers a recipe for growing radical ideas again. Lyrical and profound, *The Quiet Before* looks to the past to help us imagine a different future.

rules of radicals: Tenured Radicals Roger Kimball, 2008 Since *Tenured Radicals* first appeared in 1990, it has achieved a stature as the leading critique of the ways in which the humanities are now taught and studied at American universities. Trenchant and witty, it lays bare the sham of what now passes for serious academic pursuit in too many circles. In this new edition, completely reset, Roger Kimball has brought the text up to date and has added a new Introduction. Those who have never read *Tenured Radicals* are in for a treat; others may find a second reading worth their while. Mr. Kimball names his enemies precisely.... This book will breed fistfights.-Roger Rosenblatt, New York Times Book Review. All persons serious about education should see it.-Allan Bloom, author of *The Closing of the American Mind*. *Tenured Radicals* is a withering critique.-Jonathan Yardley, Washington Post Book World. A bravado performance of critical journalism...a vivid, up-to-the-minute account, alternately amusing and dismaying, of the takeover of the academy by ideology.-Robert Alter, Newsday. A stinging account.... The commonsense approach of *Tenured Radicals* provokes constant reflections and occasional laughter at the squirming victims.-Roger Shattuck, author of *The Banquet Years*.

rules of radicals: Rules for Radicals Saul David Alinsky, 2023

rules of radicals: Beginning and Intermediate Algebra Tyler Wallace, 2018-02-13 Get Better Results with high quality content, exercise sets, and step-by-step pedagogy! Tyler Wallace continues to offer an enlightened approach grounded in the fundamentals of classroom experience in *Beginning and Intermediate Algebra*. The text reflects the compassion and insight of its experienced author with features developed to address the specific needs of developmental level students. Throughout the text, the author communicates to students the very points their instructors are likely to make during lecture, and this helps to reinforce the concepts and provide instruction that leads students to mastery and success. The exercises, along with the number of practice problems and group activities available, permit instructors to choose from a wealth of problems, allowing ample opportunity for students to practice what they learn in lecture to hone their skills. In this way, the book perfectly complements any learning platform, whether traditional lecture or distance-learning; its instruction is so reflective of what comes from lecture, that students will feel as comfortable outside of class as they do inside class with their instructor.

rules of radicals: Radical Islam's Rules Paul Marshall, 2005-02-25 A major feature of the rise of Islamism in the Middle East, Asia, Africa and parts of the West is the rapid growth of a starkly repressive version of Islamic shari'a law, often fueled by funds and support from Saudi Arabia. The central purpose of Islamists, including terrorists, is to impose such law in all Muslim lands, and then throughout the world in a new Caliphate. Despite its importance, this worldwide growth of extreme shari'a is under-documented and little understood. By a comparative study over the last twenty-five years of Saudi Arabia, Iran, Pakistan, Sudan, Nigeria, Malaysia, and Indonesia, this book shows its terrible effects on human rights, especially the status of women and religious freedom, of Muslims as well as religious minorities, and on democracy itself. It also shows that such laws are a direct threat to the American interest of advancing democracy and human rights, that the United States lacks a policy for dealing with the spread of extreme shari'a, and concludes with policy recommendations for the United States regarding specific countries confronting extreme shari'a.

rules of radicals: Collective Action for Social Change A. Schutz, M. Sandy, 2011-04-11 Community organizers build solidarity and collective power in fractured communities. They help

ordinary people turn their private pain into public action, releasing hidden capacities for leadership and strategy. In *Collective Action for Social Change*, Aaron Schutz and Marie G. Sandy draw on their extensive experience participating in community organizing activities and teaching courses on the subject to empower novices to think like an organizers.

rules of radicals: *Communism: A Very Short Introduction* Leslie Holmes, 2009-08-27 The collapse of communism was one of the most defining moments of the twentieth century. This *Very Short Introduction* examines the history behind the political, economic, and social structures of communism as an ideology.

rules of radicals: Radicals in Robes Cass R. Sunstein, 2009-04-28 Most people think that the Supreme Court has a rough balance between left and right. This is a myth; in fact the justices once considered right-wing have now taken the mantle of the Court's moderates, and the liberal element has all but disappeared. Most people also think that judicial activism is solely a liberal movement. This is also a myth; since William Rehnquist was confirmed as Chief Justice in 1986, the Supreme Court has engaged in an unprecedented record of judicial activism. These two factors are feeding a movement to restore what many conservatives call *The Constitution in Exile*, by which they mean the Constitution as it existed before the Roosevelt administration. *Radicals in Robes* explains what the restoration of this constitutional vision would mean. It would mean the end of the FCC, the SEC, the EPA, and every other federal agency that enacts regulations that have the force of law. It would mean that the clause of the First Amendment that says that Congress may make no law respecting an establishment of religion would be turned on its head. Marriage laws and many other familiar areas of modern life are all in the sights of this conservative movement. *Radicals in Robes* takes judicial philosophy out of the law schools and shows what it means when it intersects partisan politics. It pulls away the veil of rhetoric from a dangerous and radical right-wing movement and issues a strong and passionate warning about what conservatives really intend. One of the most respected legal theorists in the country, Cass R. Sunstein here issues a warning of compelling concern to us all.

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