

Directions: For problems 1 – 6, find all solutions on the interval $0 \leq x < 2\pi$.

1. $\sin(x) = \frac{\sqrt{2}}{2}$
 $x = \frac{\pi}{4}, \frac{3\pi}{4}$

2. $\cos(x) = \frac{1}{2}$
 $x = \frac{\pi}{3}, \frac{5\pi}{3}$

3. $\cos(x) = 0$
 $x = \frac{\pi}{2}, \frac{3\pi}{2}$

4. $\tan x = -1$
 $x = \frac{3\pi}{4}, \frac{7\pi}{4}$

5. $\sin x = -\frac{1}{2}$
 $x = \frac{7\pi}{6}, \frac{11\pi}{6}$

6. $\tan x = \sqrt{3}$
 $x = \frac{\pi}{3}, \frac{4\pi}{3}$

Directions: For problems 7 – 12, find all solutions that satisfy the given equations.

7. $\sin x = \frac{\sqrt{3}}{2}$
 $x = \frac{\pi}{3} + 2\pi k \text{ and}$
 $x = \frac{2\pi}{3} + 2\pi k$

8. $\cos x = \frac{\sqrt{2}}{2}$
 $x = \frac{\pi}{4} + 2\pi k \text{ and}$
 $x = \frac{7\pi}{4} + 2\pi k$

9. $\tan x = 1$
 $x = \frac{\pi}{4} + \pi k$

10. $\sin x = -1$
 $x = \frac{3\pi}{2} + 2\pi k$

11. $\cos x = -\frac{\sqrt{3}}{2}$
 $x = \frac{5\pi}{6} + 2\pi k \text{ and}$
 $x = \frac{7\pi}{6} + 2\pi k$

12. $\tan x = -\frac{1}{\sqrt{3}}$
 $x = \frac{5\pi}{6} + \pi k$

Directions: For problems 13 – 14, find all solutions on the interval $0 \leq x < 2\pi$.

13. $2\cos(x) + 3 = 2$
 $2\cos(x) = -1$
 $\cos(x) = -\frac{1}{2}$
 $x = \frac{2\pi}{3}, \frac{4\pi}{3}$

14. $-4\sin x = 2\sqrt{3}$
 $\sin(x) = -\frac{2\sqrt{3}}{4} = -\frac{\sqrt{3}}{2}$
 $x = \frac{4\pi}{3}, \frac{5\pi}{3}$

Applications Of Rational Functions Unit 7 Lesson 2

Daniel F McAuley

Applications Of Rational Functions Unit 7 Lesson 2:

Precalculus: The Easy Way Christina Pawlowski-Polanish, Lawrence Leff, 2019-09-03 A self teaching guide for students
Precalculus The Easy Way provides easy to follow lessons with comprehensive review and practice This edition features a brand new design and new content structure with illustrations and practice questions An essential resource for High school and college courses Virtual learning Learning pods Homeschooling Precalculus The Easy Way covers Algebraic Methods Functions and Graphs Complex Numbers Polynomial and Rational Functions Calculus Preview And more [Taking Collegial Responsibility for Implementation of Standards-based Curriculum](#) Ruth Anne Hetherington, 2000

Brain-Compatible

Mathematics Diane Ronis, 2007 Recharge your math instruction with brain friendly teaching units Students brains are wired to make them natural curious learners The mathematical world around them offers a vast classroom filled with shapes spaces quantities and experiences to discover and explore all leading to the construction of understanding Teachers can use this natural curiosity to tap the inborn neural mechanisms that motivate students to learn to make relevance and meaning of their surroundings Brain Compatible Mathematics Second Edition bridges the findings from the realms of brain research and improved mathematics instruction through updated teaching samples connections to the most recent standards newest research findings and integration to other content areas Each brain is different and when teachers teach problem solving skills to help students arrive at their own solution paths students go beyond mere memorization of facts and algorithms to being an actual participant in the development of mathematical understanding In an informative and relevant approach Diane Ronis presents teachers and math leaders with an emphasis on thinking mathematical representation and construction of ideas and an abundance of Sample lessons units and strategies linked to 2000 NCTM standards Brain friendly strategies for math teaching that meet NCLB requirements How to guides for creating more brain tuned math teaching Ideas for incorporating technology into the math curriculum Planning templates for immediate use By integrating math learning into real world applications students can actively practice what they learn make meaning out of their everyday experiences and think mathematically for success within today s information age [Film & Video Finder](#), 1989

Inquiry and Problem

Solving, 1999 [Index to Educational Videotapes](#) National Information Center for Educational Media, 1974 **ENC Focus**, 1999 [Index to Educational Audio Tapes](#), 1974 [Index to Educational Audio Tapes](#) National Information Center for Educational Media, 1974

Research in Education, 1974 **Resources in Education**, 1981 **Advanced**

Mathematical Concepts Transparency Sampler 2001 McGraw-Hill Staff, 2001 **Algebra Essentials and**

Applications Joseph C. Power, 2001 **El-Hi Textbooks in Print**, 1980 **Integrated Mathematics** Holt

McDougal, 1998 *The School Journal*, 1885 *Multimedia and Videodisc Compendium*, 1995 [Teaching Mathematics in Secondary and Middle School](#) James S. Cangelosi, 1992 [R.R. Bowker's Software for Schools](#), 1987 **The Software Encyclopedia**, 1988

Applications Of Rational Functions Unit 7 Lesson 2: Bestsellers in 2023 The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous engrossing novels captivating the hearts of readers worldwide. Lets delve into the realm of popular books, exploring the captivating narratives that have charmed audiences this year. The Must-Read : Colleen Hoovers "It Ends with Us" This heartfelt tale of love, loss, and resilience has gripped readers with its raw and emotional exploration of domestic abuse. Hoover masterfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can triumph. Applications Of Rational Functions Unit 7 Lesson 2 : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This intriguing historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids compelling storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Discover the Magic : Delia Owens "Where the Crawdads Sing" This evocative coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens crafts a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These bestselling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of compelling stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a exceptional and gripping novel that will keep you guessing until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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