

Algebra 2 Unit 2.3 Post-test Worksheet

Modeling with Quadratic Function

- 1) Solve the equations below using Square Roots, Completing the Square, Factoring, or the Quadratic Formula. Use each method only once.

a) $6(x + 2)^2 - 9 = 45$

c) $x^2 = -7x - 4$

b) $x^2 + 3x - 2 = 2$

d) $2x^2 - 12x + 2 = 0$

- 2) A basketball player throws ball. The function for the height of the ball h (in feet) in terms of time t (in seconds) follows: $h(t) = -16t^2 + 20t + 6$.

- Find the maximum height the ball reaches.
- What height was the ball initially thrown from?
- Find the time the ball will hit the ground.

- 3) Dewey Dolphin is performing at the Sea World. He jumps out of the water and follows the path described by the following equation: $h(d) = -2x^2 + d + 20$, where h is the height in feet and d is the distance in feet.

- What is the maximum height Dewey reaches?
- At what distance will he hit the water?
- Graph the equation of the path of Dewey. Clearly label the line of symmetry, the vertex, the y-intercept, and the x-intercept.

- 4) The formula $h(t) = 200t - 26t^2$ represents the height of an object after t seconds when it is projected upward with a velocity of 200 feet per second. Can the object reach a height of 1000 ft? Explain why or why not?

- 5) The Pali basketball team is practicing shooting. Mercer shoots the ball and it follows a path described by the equation: $h(d) = -14d^2 + 17d + 9$, where h is the height in feet and d is the distance in feet.

- What is the maximum height the ball reaches?
- If the ball does not hit anything, how far away will it land?
- Graph the equation of the path of the ball. Clearly label the line of symmetry, the vertex, the y-intercept, and the x-intercept.
- Kobe Bryant is practicing free throws shots. He shoots the ball and it follows a path modeled by the equation: $h = -0.25d^2 + 2.5d + 7.5$. Will the ball reach a height of 10 feet?

- 6) A fountain has two water arcs and each follows a path given by the equation below where h is the height of the water arc and d is the distance.

Arc I: $h(d) = -d^2 + 2d + 7$

Arc II: $h(d) = -.25d^2 + 4$

- Which arc goes higher?
What height does it reach?
- Which arc is wider? Explain how you found the width.
- Graph both arcs on the same coordinate axes. Label the line of symmetry, vertex, y-intercept, and the x-intercepts.

Algebra Ib Unit 3 Post Test

Joacim Rocklöv



Algebra Ib Unit 3 Post Test:

Reaching Algebra Readiness (RAR) Tony G. Williams, 2011-10-30 Research has shown that algebra is the doorway and gateway for future success of students in many aspects including high school graduation attending and success in college and professional earning power And the most important key to students success in algebra is their readiness This book is not only a program that addresses algebra readiness it is also a fundamental reform effort based on the National Mathematics Advisory Panel s NMAP s Final Report spring 2008 The book approaches mathematic skills deficiencies on an individual basis much like an IEP addresses the individual needs of a student with disabilities The Reaching Algebra Readiness RAR process consists of four components 1 Diagnostic assessing student s mastery of the skills needed to take algebra 2 Prescriptive developing an individualized plan to address specific math deficiencies 3 Intervention utilizing tools and resources parental involvement effective teaching strategies etc to improve students mathematics skills and 4 Drills and Effective Teachings Strategies mathematics is a discipline and simply there is no way of avoiding practice and drilling in reaching algebra readiness which can be enhanced significantly by implementing proven effective teaching strategies The Reaching Algebra Readiness RAR process and the related materials presented in this book will be revolutionary in helping all students acquire the math skills needed for success in algebra and beyond This book is a must guide for math teachers parents who home school parents who are looking for solutions and educators pursuing fundamental education reforms

El-Hi Textbooks in Print, 1984 **Math Advantage** Grace M. Burton, 1999 **Catalogs of Courses** University of California, Berkeley, 1994

Includes general and summer catalogs issued between 1878 1879 and 1995 1997 **SCIENCE PROJECTS IN**

RENEWABLE ENERGY AND ENERGY EFFICIENCY, The Value of Science Projects Science projects are an especially effective way of teaching students about the world around them Whether conducted in the classroom or for a science fair science projects can help develop critical thinking and problem solving skills In a classroom setting science projects offer a way for teachers to put action into the lessons The students have fun while they re learning important knowledge and skills And the teacher often learns with the students experiencing excitement with each new discovery Science projects are generally of two types non experimental and experimental Non experimental projects usually reflect what the student has read or heard about in an area of science By creating displays or collections of scientific information or demonstrating certain natural phenomena the student goes through a process similar to a library research report or a meta analysis in any other subject Projects of this type may be appropriate for some students at a very early level but they usually do not provide the experiences that develop problem solving skills related to the scientific process On the other hand experimental projects pose a question or hypothesis which is then answered by doing an experiment or by modeling a phenomenon The question doesn t have to be something never before answered by scientist that is not necessary to conduct original research The process of picking a topic designing an experiment and recording and analyzing data is what s important Resources in

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 Development Reports** ,1970 **Quick Reference for Counselors** ,2011 **Announcements** University of California,
 San Francisco. School of Medicine,1936 **AKASHVANI** All India Radio (AIR), New Delhi ,1976-02-01 Akashvani English is
 a programme journal of ALL INDIA RADIO it was formerly known as The Indian Listener It used to serve the listener as a
 bradshaw of broadcasting and give listener the useful information in an interesting manner about programmes who writes
 them take part in them and produce them along with photographs of performing artists It also contains the information of
 major changes in the policy and service of the organisation The Indian Listener fortnightly programme journal of AIR in
 English published by The Indian State Broadcasting Service Bombay started on 22 December 1935 and was the successor to
 the Indian Radio Times in English which was published beginning in July 16 of 1927 From 22 August 1937 onwards it used to
 published by All India Radio New Delhi From 1950 it was turned into a weekly journal Later The Indian listener became
 Akashvani English w e f January 5 1958 It was made fortnightly journal again w e f July 1 1983 NAME OF THE JOURNAL
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 PERIODICITY OF THE JOURNAL Weekly NUMBER OF PAGES 56 VOLUME NUMBER Vol XLI No 5 BROADCAST
 PROGRAMME SCHEDULE PUBLISHED PAGE NOS 13 54 ARTICLE 1 Mrs Annie Besant 2 The Great Pioneer Annie Besant 3
 Environmental Pollution 4 The Press Its Power and Its Responsibilities 5 Diminishing Flora Fauna 6 Perfumes Scents and
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Telephone Directory United States. Department of Defense,1979 Each issue includes a classified section on the

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 Chronicle Four-Year College Databook Chronicle Guidance Publishers, 2007-08

The Top Books of the Year Algebra Ib Unit 3 Post Test The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous compelling novels captivating the hearts of readers worldwide. Lets delve into the realm of top-selling books, exploring the captivating narratives that have charmed audiences this year. The Must-Read : Colleen Hoover's "It Ends with Us" This poignant tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover expertly weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can triumph. Uncover the Best : 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 captivating storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Algebra Ib Unit 3 Post Test : Delia Owens "Where the Crawdads Sing" This mesmerizing coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens weaves a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These popular 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 captivating 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 an exceptional and thrilling 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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