

Station 3: Solving Quadratic Equations

Part A: Complete each problem by FACTORING.

1. Find the real zeros of $f(x) = 2x^2 + 15x + 18$.

$$0 = 2x^2 + 15x + 18$$

$$0 = (2x + 3)(x + 6)$$

$$x = -\frac{3}{2} \text{ or } -6$$

2. Solve $9x^2 - 10x + 5 = 0$.

$$9x^2 - 10x - 5 = 0$$

$$(3x - 5)(3x + 1) = 0$$

$$x = \frac{5}{3} \text{ or } -\frac{1}{3}$$

3. A box has a base that measures 3 inches by 5 inches, and a height of 11 inches. Increasing each dimension of the base by the same amount causes the volume of the box to increase by 528 cubic inches.

- a. Using x as the amount that each dimension of the base is increased by, write an expression for the volume of the box. Let x be the increase in each dimension of the base in inches.

$$11(3+x)(5+x)$$

- b. Use the original measurements and the expression you wrote in part (a) to write an equation that can be used to find the amount by which each dimension of the base increased.

$$(3)(5)(11) + 528 = 11(3+x)(5+x)$$

- c. Solve the equation in part (b) and interpret the solutions in the context of the problem.

$$165 + 528 = 11(x+3)(x+5)$$

$$693 = 11(x^2 + 8x + 15)$$

$$63 = x^2 + 8x + 15$$

$$x^2 + 8x - 48 = 0$$

$$(x+12)(x-4) = 0$$

$$x = -12 \text{ or } 4$$

Each dimension of the base is increased by 4 in.

Part B: Complete each problem.

4. Consider $9x^2 - 12x + 9 = -50$.

- a. Determine how many and what type of solutions the equation has.

$$b^2 - 4ac = (-12)^2 - 4(9)(98) = 144 - (3528) < 0$$

2 imaginary solutions

- b. Find those solutions by completing the square.

$$9x^2 - 12x + 9 = -50$$

$$9x^2 - 12x = -59$$

$$x^2 - \frac{4}{3}x = -\frac{59}{9}$$

$$x^2 - \frac{4}{3}x + \frac{4}{9} = -\frac{59}{9} + \frac{4}{9}$$

$$(x - \frac{2}{3})^2 = -\frac{55}{9}$$

$$x - \frac{2}{3} = \pm \frac{\sqrt{55}}{3}$$

$$x = \frac{2}{3} \pm \frac{\sqrt{55}}{3}$$

5. A rocket is shot into the air from a 168-foot-high platform with an initial velocity of 68 feet per second.

- a. Use the quadratic formula to determine how much time the rocket is in the air before landing at ground level.

$$h(t) = -16t^2 + 68t + 168$$

$$t = \frac{-68 \pm \sqrt{68^2 - 4(-16)(168)}}{2(-16)} = -1.5 \text{ or } 7$$

the rocket landed after 7 seconds

- b. Could the factoring method have been used to answer the question above? Explain.

Yes, because solutions are rational

For HW, complete Part 2 of the review packet.

Answers For Economics E2020

Mark Ashley



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Elgar Encyclopedia of Water Policy, Economics and Management Phoebe Koundouri, Angelos Alamanos, 2024-01-18 This authoritative Encyclopedia provides an innovative approach to theory reviews applications and examples relevant to the basic concepts of water science and water management issues in order to facilitate better interdisciplinary cooperation

New Metropolitan Perspectives Francesco Calabrò, Lucia Della Spina, Carmelina Bevilacqua, 2018-05-18 This book explores the role of cities and the urban rural linkages in spurring innovation embedded in spatial planning strategic and economic planning and decision support systems In particular the contributions examine the complexity of the current transitional phase towards achieving smart inclusive and sustainable growth and investigate the post 2020 UE cohesion policy The main topics include Innovation dynamics and smart cities Urban regeneration community led and PPP Inland and urban area development Mobility accessibility infrastructures Heritage landscape and Identity and Risk management Environment and Energy The book includes a selection of articles accepted for presentation and discussion at the 3rd International Symposium New Metropolitan Perspectives ISTH2020 held at the University of Reggio Calabria Italy on 22 25 May 2018 The symposium which addressed the challenge of local knowledge and innovation dynamics towards territory attractiveness hosted the final event of the MAPS LED project under Horizon2020 MSCA RISE

Cumulated Index Medicus, 1999 *Hunter's Tropical Medicine and Emerging Infectious Diseases E-Book* Edward T Ryan, David R Hill, Tom Solomon, Naomi Aronson, Timothy P Endy, 2019-03-25 New emerging diseases new diagnostic modalities for resource poor settings new vaccine schedules all significant recent developments in the fast changing field of tropical medicine Hunter's Tropical Medicine and Emerging Infectious Diseases 10th Edition keeps you up to date with everything from infectious diseases and environmental issues through poisoning and toxicology animal injuries and nutritional and micronutrient deficiencies that result from traveling to tropical or subtropical regions This comprehensive resource provides authoritative clinical guidance useful statistics and chapters covering organs skills and services as well as traditional pathogen based content You ll get a full understanding of how to recognize and treat these unique health issues no matter how widespread or difficult to control Includes important updates on malaria leishmaniasis tuberculosis and HIV as well as coverage of Ebola Zika virus Chikungunya and other emerging pathogens Provides new vaccine schedules and information on implementation Features five all new chapters Neglected Tropical Diseases Public Health Control Programs and Mass Drug Administration Health System and Health Care Delivery Zika Medical Entomology and Vector Control as well as 250 new images throughout Presents the common characteristics and methods of transmission for each tropical disease as well as the applicable diagnosis treatment control and disease prevention techniques Contains skills based chapters such as dentistry neonatal pediatrics and ICMI and surgery in the tropics and service based chapters such as transfusion in resource poor settings microbiology and imaging Discusses maladies such as delusional parasitosis that are often seen in returning travelers including those making international

adoptions transplant patients medical tourists and more Enhanced eBook version included with purchase which allows you to access all of the text figures and references from the book on a variety of devices Sociological Abstracts Leo P. Chall,1970 Contains more than 300 000 records covering sociology social work and other social sciences Covers 1963 to the present Updated six times per year **Power Generation Resource Incentives and Diversity** United States. Congress. Senate. Committee on Energy and Natural Resources,2005 **Entomopathogenic Nematodes as Biological Control Agents** David I. Shapiro-Ilan,Edwin E. Lewis,2024-09-23 Entomopathogenic nematodes EPNs are biocontrol agents that are used to control a wide variety of insect pests within agriculture and forestry In addition to their use as bio pesticides EPNs have a fascinating biology and are thus considered model organisms in ecology symbiosis and pathogenesis This book presents basic knowledge and diverse applications to illustrate how EPNs play an important role as potent biocontrol solutions This book is a must have for all pest management professionals including those practicing integrated pest management strategies *Natural Gas, Fuel Diversity and North American Energy Markets* ,2003 *Index Medicus* ,2001 Congressional Record United States. Congress,1981 *Agrindex* ,1994 **Animal Behaviour Abstracts** ,1999 Mucosal Vaccines David W. Pascual,2019-10-19 Mucosal Vaccines Innovation for Preventing Infectious Diseases discusses basic knowledge and discovery in the area of mucosal immunology and its related scientific fields This completely updated revised and authoritative treatise covers all aspects of mucosal vaccines including their development mechanisms of action molecular cellular aspects and practical applications The book is organized in a unique format with basic clinical and practical aspects described and discussed The accumulated knowledge and new discoveries on the development of mucosal vaccines are logically introduced and discussed in an easy to understand format Provides the latest views on mucosal vaccines Applies basic and current principles in the field of mucosal immunology and related scientific fields e g microbiology infectious diseases systems biology medicine dentistry veterinary medicine and translational research to the development of new vaccines Links basic clinical and practical aspects of mucosal vaccines to different infectious diseases Presents user friendly organization using attractive illustrations **Journal Canadien Des Sciences Neurologiques** ,1998 **Canadian Journal of Psychiatry** ,2000 **Economics Exam Questions** R. H. Dart,1984-01-01 **Economics Answers School** Terry Devin,1992 **50 Model Answers in Economics** Mark Ashley,1996 **50 Model Answers in Economics** Mark Ashley,Oxford School of Learning,1998-12-01 *Q&A Economics* Ray Powell,1995 Providing questions from past exam papers as well as new questions set by actual A Level examiners this book on economics is one of a series

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