

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.

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

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

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

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

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

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

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.

$$b^2 - 4ac = (-12)^2 - 4(9)(9) = 144 - (36)(9) < 0$$

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

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CliffsNotes FTCE Professional Education Test Sandra Luna McCune, Sandra K. McCune, Vi Cain Alexander, 2014-10-21 This 3rd Edition of CliffsNotes FTCE Professional Education Test encapsulates the major test changes to this important Florida teacher certification test that would be Florida teachers must pass to become credentialed *The school board and school attendance committee directory, ed. by R. Gowing* Richard Gowing, 1878 [The Massachusetts General Hospital Guide to Learning Disabilities](#) H. Kent Wilson, Ellen B. Braaten, 2018-12-13 This book connects experts in the field of child assessment to provide child psychiatrists with knowledge in evaluation and educational programming The book provides a review of the latest science behind common learning disabilities including etiology and guidelines for assessment diagnosis neurodevelopmental disorders like learning disabilities ADHD psychiatric disorders in childhood such as mood and anxiety disorders and impact learning and development protocols The Massachusetts General Hospital Guide to Learning Disabilities evaluates the interventions that are effective in addressing these learning challenges in the context of multiple factors in a way that no other current text does Special topics such as special education law and managing the needs of transitional age youth allow psychiatrists to support their patients and their families as they navigate the system By offering a better understanding the learning needs of their patients this texts gives readers the tools to consult with families and educators regarding how to address the learning needs of their patients at school and in other settings The Massachusetts General Hospital Guide to Learning Disabilities is a vital tool for child psychiatrists students assessment professionals and other professionals studying or working with children suffering from learning disabilities [The Journal of Educational Research](#) ,1920 *Educational Testing and Measurement* Tom Kubiszyn, Gary D. Borich, 2024-01-24 Educational Testing Measurement Revised and updated edition of the reader friendly classroom relevant introduction to testing and assessment designed for educators to meet today s challenges in measuring student progress Educational Testing and Measurement Twelfth Edition is a revised and updated practical resource that will enhance assessment literacy to help prepare current and prospective teachers to navigate today s changing world of educational testing and assessment It describes the classroom impact of national and key state level policy changes that drive the ongoing changes in the usage of both teacher made and standardized tests and assessments Expanding on previous editions the book Explains test and

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The Texas Outlook ,1916 *Instructional System Development for Training Managers (AFSC 7515): Introduction to instructional system development* Charles E. Lindsey,1984

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