

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.

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

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

$$15 + 5 = x^2 + 8x + 15$$

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

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

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

Each dimension of the base is increased by 4 in.

Part B: Complete each problem.

4. Consider $9x^2 - 12x + 98 = -50$.

- 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.

$$9x^2 - 12x + 98 = -50$$

$$9x^2 - 12x = -148$$

$$x^2 - \frac{4}{3}x = -\frac{122}{9}$$

$$x^2 - \frac{4}{3}x + \frac{4}{9} = -\frac{122}{9} + \frac{4}{9}$$

$$(x - \frac{2}{3})^2 = -\frac{118}{9}$$

$$x - \frac{2}{3} = \pm \frac{\sqrt{118}}{3}$$

$$x = \frac{2}{3} \pm \frac{\sqrt{118}}{3}$$

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

Algebra Nation Polynomial Operations Answer Key

Nanci N. Smith



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Publications of the National Bureau of Standards, 1974 Catalog United States. National Bureau of Standards,1975

Publications of the National Bureau of Standards, 1972 Catalog United States. National Bureau of Standards,1973

Publications of the National Bureau of Standards United States. National Bureau of Standards,1978 **Software for Algebraic Geometry** Michael E. Stillman,Nobuki Takayama,Jan Verschelde,2008-05-29 Algorithms in algebraic geometry go hand in hand with software packages that implement them Together they have established the modern field of computational algebraic geometry which has come to play a major role in both theoretical advances and applications Over

the past fifteen years several excellent general purpose packages for computations in algebraic geometry have been developed such as CoCoA Singular and Macaulay 2 While these packages evolve continuously incorporating new mathematical advances they both motivate and demand the creation of new mathematics and smarter algorithms This volume reflects the workshop Software for Algebraic Geometry held in the week from 23 to 27 October 2006 as the second workshop in the thematic year on Applications of Algebraic Geometry at the IMA The papers in this volume describe the software packages Bertini PHClab Gfan DEMiCs SYNAPS TrIm Gambit ApaTools and the application of Risa Asir to a conjecture on multiple zeta values They offer the reader a broad view of current trends in computational algebraic geometry through software development and applications

Publications United States. National Bureau of Standards,1969 Publications
of the National Bureau of Standards ... Catalog United States. National Bureau of Standards,1978

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