Name: _____ Date: _____ Period: _____ Algebra 2 H

Station 3: Solving Quadratic Equations

Part A: Complete each problem by FACTORING.

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

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

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

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

2. Solve $245x^2 - 405 = 0$.

$49x^2 - 81 = 0$

$(7x + 9)(7x - 9) = 0$

$x = \pm\frac{9}{7}$

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

$9x^2 - 12x - 5 = 0$

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

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

4. 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.

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

$693 = 11(x + 3)(x + 5)$

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

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

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

$x = -12$ or 4

each dimension of the base is increased by 4 in.

Part B: Complete each problem.

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

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

$b^2 - 4ac \quad (-12)^2 - 4(9)(148) = 144 - (36)(148) < 0$

2 imaginary solutions

b. Find those solutions by completing the square.

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

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

$x^2 - \frac{4}{3}x = -\frac{148}{9}$

$x^2 - \frac{4}{3}x + \frac{4}{9} = -\frac{144}{9} + \frac{4}{9}$

$(x - \frac{2}{3})^2 = -\frac{140}{9}$

$x - \frac{2}{3} = \pm\frac{\sqrt{140}}{3}i$

$x = \frac{2}{3} \pm 4.2i$

6. A rocket is shot into the air from a 168-foot-high platform with an initial velocity of 88 feet per second.

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

$h(t) = -16t^2 + 16t + h_0$

$h(t) = -16t^2 + 88t + 168$

$t = \frac{-88 \pm \sqrt{88^2 - 4(-16)(168)}}{2(-16)} = -1.5$ 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.

Jlab Algebra 1 Answers

Peter Appelbaum,with David Scott Allen

Jlab Algebra 1 Answers:

N Physics and Nonperturbative Quantum Chromodynamics* Silvano Simula,Bijan Saghai,Nimai C. Mukhopadhyay,Volker D. Burkert,2012-12-06 The Workshop N Physics and non perturbative QeD was held at the Eu ropean Center for Theoretical Studies and Related Areas ECT in Trento Italy during May 18 29 1998 Previous workshops of the series on N Physics took place at the Florida State University 1994 at CEBAF 1995 at the Institute for Nuclear Theory in Seattle 1996 and at the George Washington University 1997 The Workshop was devoted to a summary of recent experimental and the oretical research on N phsyics and special emphasis was given to the infor mation that photo and electro production of nucleon resonances can provide on the non perturbative regime of Quantum Chromodynamics The idea was to stimulate discussions among experimentalists and theoreticians in order to pursue the interpretation of the huge amount of forthcoming data from several laboratories in the world It was therefore decided to have both experimental and theoretical lectures on the main topics like among the others single and double pion production TJ and K meson production the GDH sum rule the spin of the proton etc Thanks to the unusual two week extension of the Work shop the allotted time for the lectures was extended up to one hour in order to allow the invited lecturers to give a detailed presentation of their topics Fi nally various short contributions were selected to sharpen the discussion about selected items *Embracing Mathematics* Peter Appelbaum,with David Scott Allen,2008-06-30 This alternative textbook integrates pedagogy and content exploration in ways that are unique in mathematics education provoking new ideas for making mathematics education meaningful to teachers at all levels as well as their students **Il Nuovo cimento della Società italiana di fisica** ,1973 Algebra 1 Tests Answer Key Bob Jones University Press,

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