

Solving for roots:

10. $x^2 + 5x - 14 = 0$

$(x+7)(x-2) = 0$

$x+7=0 \quad x-2=0$

$\boxed{x = -7} \quad \boxed{x = 2}$

12. $4x^2 + 4x = 12x + 5$
 $-12x - 5 = 12x - 5$

$4x^2 - 8x - 5 = 0$
 $(2x-5)(2x+1) = 0$
 $\boxed{x = \frac{5}{2}} \quad \boxed{x = -\frac{1}{2}}$

14. $7x^2 + 140 = 0$

$\frac{7x^2}{7} = -\frac{140}{7}$

$x^2 = -20$ No Solutions
real

16. $3x^2 + 4x + 2 = 0$

$x = \frac{-4 \pm \sqrt{4^2 - 4(3)(2)}}{2(3)}$

$x = \frac{-4 \pm \sqrt{16 - 24}}{6}$ No Sol
real

33. The height of a rocket shot into the air is modeled by the equation $h(t) = -16t^2 - 6t + 302$, where h is the height in meters of the rocket after t seconds.

a. Find the maximum height of the rocket and when it occurs. vertex: $(-1.187, 302.56)$

~~$A = \frac{b^2 - 4ac}{4a} = \frac{(-6)^2 - 4(-16)(-6)}{4(-16)} = \frac{36 - 384}{-64} = \frac{-348}{-64} = 5.4$~~ $y\text{-int is max height}$

b. When does the rocket return to the earth? $x\text{-int}$

$\boxed{x = 4.2 \text{ seconds}}$

11. $x^2 - 8 = 2x$

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

$(x-4)(x+2) = 0$

$x-4=0 \quad x+2=0$
 $\boxed{x=4} \quad \boxed{x=-2}$

13. $x^2 + 2x - 35 = 0$

$(x-5)(x+7) = 0$

$x-5=0 \quad x+7=0$

$\boxed{x=5} \quad \boxed{x=-7}$

15. $x^2 - 4x = -10$ No real sol

$x^2 - 4x + 4 = -10 + 4$

$(x-2)^2 = -6$

$x-2 = \sqrt{-6}$ No real sol

17. $2x^2 + 5x - 4 = 0$

$x = \frac{-5 \pm \sqrt{5^2 - 4(2)(-4)}}{2(2)} = \frac{-5 \pm \sqrt{55}}{4}$

$x = \frac{-5 + \sqrt{55}}{4} \quad x = \frac{-5 - \sqrt{55}}{4}$
 $\boxed{x = -3.104} \quad \boxed{x = -0.604}$

* Can use calculator.

Algebra 1 Review Factoring Answer Key

DP Hallahan

Algebra 1 Review Factoring Answer Key:

The Algebra Teacher's Guide to Reteaching Essential Concepts and Skills Judith A. Muschla, Gary R. Muschla, Erin Muschla, 2011-11-15 Easy to apply lessons for reteaching difficult algebra concepts Many students have trouble grasping algebra In this book bestselling authors Judith Gary and Erin Muschla offer help for math teachers who must instruct their students even those who are struggling about the complexities of algebra In simple terms the authors outline 150 classroom tested lessons focused on those concepts often most difficult to understand in terms that are designed to help all students unravel the mysteries of algebra Also included are reproducible worksheets that will assist teachers in reviewing and reinforcing algebra concepts and key skills Filled with classroom ready algebra lessons designed for students at all levels The 150 mini lessons can be tailored to a whole class small groups or individual students who are having trouble This practical hands on resource will help ensure that students really get the algebra they are learning

Algebra Teacher's Activities Kit Judith A. Muschla, Gary R. Muschla, Erin Muschla-Berry, 2015-12-21 Help your students succeed with classroom ready standards based activities The Algebra Teacher's Activities Kit 150 Activities That Support Algebra in the Common Core Math Standards helps you bring the standards into your algebra classroom with a range of engaging activities that reinforce fundamental algebra skills This newly updated second edition is formatted for easy implementation with teaching notes and answers followed by reproducibles for activities covering the algebra standards for grades 6 through 12 Coverage includes whole numbers variables equations inequalities graphing polynomials factoring logarithmic functions statistics and more and gives you the material you need to reach students of various abilities and learning styles Many of these activities are self correcting adding interest for students and saving you time This book provides dozens of activities that Directly address each Common Core algebra standard Engage students and get them excited about math Are tailored to a diverse range of levels and abilities Reinforce fundamental skills and demonstrate everyday relevance Algebra lays the groundwork for every math class that comes after it so it's crucial that students master the material and gain confidence in their abilities The Algebra Teacher's Activities Kit helps you face the challenge well armed with effective activities that help students become successful in algebra class and beyond

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