Lesson 3.2 Practice: Solving Quadratic Equations: A Review

School Launch · Algebra II · Unit 3: Quadratic Functions and Complex Numbers · Worksheet A

Calculator for decimals

Name _____ Date _____ Score _____ / 10

Show your work under each problem, one step per line, and check your answer. Word problems: name the unknown, write the equation, solve, and answer in a sentence with units.

1. Solve with the quadratic formula: $x^2 + 5x + 4 = 0$.

EASY

2. Solve by factoring: $x^2 - 15x + 54 = 0$. EASY

3. Solve with the quadratic formula: $x^2 - 6x + 9 = 0$.

EASY

4. Solve by factoring: $x^2 + x - 8 = 4$. MEDIUM

5. Solve with the quadratic formula: $4x^2 - x - 1 = 0$.

MEDIUM

6. Solve by factoring: $x^2 - 13x + 37 = -5$. MEDIUM

7. Solve with the quadratic formula: $2x^2 - 9x - 1 = 0$. MEDIUM

8. Solve by factoring: $2x^2 + 17x + 15 = -6$. HARD

9. Solve with the quadratic formula: $x^2 - 8x - 9 = 0$.

HARD

10. Solve by factoring: $2x^2 - 12x + 19 = 9$. HARD