Lesson 3.5 Practice: Quadratic Inequalities

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: $x^2 - 11x + 28 \leq 0$. EASY

2. Solve: $x^2 - x - 56 < 0$. EASY

3. Solve: $x^2 - 25 > 0$. EASY

4. Solve: $x^2 - 16 \geq 0$. MEDIUM

5. Solve: $x^2 + 2x - 3 \geq 0$. MEDIUM

6. Solve: $x^2 + 5x > 0$. MEDIUM

7. Solve: $x^2 + 10x + 24 \leq 0$. MEDIUM

8. Solve: $x^2 + 8x + 12 \geq 0$. HARD

9. Solve: $x^2 + x - 20 \geq 0$. HARD

10. Solve: $x^2 + 6x - 7 > 0$. HARD