Lesson 11.3 Practice: Solving Quadratic Equations by Graphing and Square Roots

School Launch · Algebra I · Unit 11: Quadratic Functions and Equations · Worksheet A

No calculator

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 using square roots: $2x^2 = 50$. EASY

2. Solve using square roots: $4x^2 = 256$. EASY

3. Solve using square roots: $2x^2 = 128$. EASY

4. Solve using square roots: $2(x+2)^2 = 128$. MEDIUM

5. Solve using square roots: $4(x+4)^2 = 324$. MEDIUM

6. Solve using square roots: $2(x+1)^2 = 2$. MEDIUM

7. Solve using square roots: $3(x-5)^2 = 75$. MEDIUM

8. Solve using square roots: $4(x+4)^2 + 6 = 22$. HARD

9. Solve using square roots: $4(x-6)^2 - 3 = 13$. HARD

10. Solve using square roots: $(x+2)^2 - 7 = 42$. HARD