Lesson 9.6 Practice: Solving Equations by Factoring

School Launch · Algebra I · Unit 9: Factoring · 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 by factoring: $x^2 + 6x - 27 = 0$. EASY

2. Solve by factoring: $x^2 - 6x - 7 = 0$. EASY

3. Solve by factoring: $x^2 - 4x + 3 = 0$. EASY

4. Solve by factoring: $x^2 - 35 = -10$. MEDIUM

5. Solve by factoring: $x^2 - 10x + 23 = 7$. MEDIUM

6. Solve by factoring: $x^2 + 10x + 17 = -4$. MEDIUM

7. Solve by factoring: $x^2 + 5x - 19 = 5$. MEDIUM

8. Solve by factoring: $2x^2 - 9x - 52 = 4$. HARD

9. Solve by factoring: $2x^2 + 14x + 19 = 7$. HARD

10. Solve by factoring: $2x^2 - 23x + 47 = -9$. HARD