Lesson 9.4 Practice: Factoring Special Products

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. Factor completely: $4x^2 + 28x + 49$. EASY

2. Factor completely: $36x^2 + 60x + 25$. EASY

3. Factor completely: $4x^2 + 36x + 81$. EASY

4. Factor completely: $25x^2 - 1$. MEDIUM

5. Factor completely: $9x^2 + 6x + 1$. MEDIUM

6. Factor completely: $x^2 + 8x + 16$. MEDIUM

7. Factor completely: $x^2 + 16x + 64$. MEDIUM

8. Factor completely: $50x^2 + 180x + 162$. HARD

9. Factor completely: $98x^2 - 50$. HARD

10. Factor completely: $48x^2 + 72x + 27$. HARD