Lesson 8.4 Practice: Special Products

School Launch · Algebra I · Unit 8: Polynomials · 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. Use a special-product pattern to multiply: $(4x + 3)(4x - 3)$. EASY

2. Use a special-product pattern to multiply: $(x - 7)^2$. EASY

3. Use a special-product pattern to multiply: $(x - 5)^2$. EASY

4. Use a special-product pattern to multiply: $(2x + 3)(2x - 3)$. MEDIUM

5. Use a special-product pattern to multiply: $(3x - 7)^2$. MEDIUM

6. Use a special-product pattern to multiply: $(3x + 2)^2$. MEDIUM

7. Use a special-product pattern to multiply: $(2x + 9)(2x - 9)$. MEDIUM

8. Use a special-product pattern to multiply: $(3x - 2y)^2$. HARD

9. Use a special-product pattern to multiply: $(5x^2 + 1)(5x - 1)$. HARD

10. Use a special-product pattern to multiply: $(x^2 + 4)(x - 4)$. HARD