Lesson 4.2 Practice: Operations with Polynomials

School Launch · Algebra II · Unit 4: Polynomial Functions · 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. Simplify: $(-x^2 + 5x + 5) + (-3x - 6)$. EASY

2. Simplify: $(x^2 + 3x - 3) + (2 - 5x)$. EASY

3. Simplify: $(4x^2 - 6x + 2) + (4x - 1)$. EASY

4. Simplify: $(6x^2 + 2x + 3) - (3x - 3)$. MEDIUM

5. Simplify: $(-6x^2 + 2x + 4) - (3x + 6)$. MEDIUM

6. Simplify: $(6x^2 + 5x + 6) - (-4x - 1)$. MEDIUM

7. Simplify: $(-3x^2 + 3x - 2) \cdot (3 - 4x)$. MEDIUM

8. Simplify: $(-x^2 + 4x + 1) \cdot (-5x^2 + 2x + 1)$. HARD

9. Simplify: $(6x^2 - 4x + 2) - (5x^2 - 3x - 6)$. HARD

10. Simplify: $(-4x^2 + 2x - 5) - (2x^2 + 4x + 6)$. HARD