Lesson 8.1 Practice: Polynomials and Their Terms

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. Write $-4x^2 + 3x + 3$ in standard form; name its degree and leading coefficient. EASY

2. Write $-x^2 + 2x - 2$ in standard form; name its degree and leading coefficient. EASY

3. Write $7x^2 + 5x + 6$ in standard form; name its degree and leading coefficient. EASY

4. Write $3x^3 - 6x^2 - 5x + 6$ in standard form; name its degree and leading coefficient. MEDIUM

5. Write $7x^3 + 2x^2 - 5x - 6$ in standard form; name its degree and leading coefficient. MEDIUM

6. Write $-x^3 - 4x^2 - 5x + 4$ in standard form; name its degree and leading coefficient. MEDIUM

7. Write $2x^3 - 4x^2 + 5x + 4$ in standard form; name its degree and leading coefficient. MEDIUM

8. Write $7x^4 + 7x^3 + 7x^2 + 6x - 5$ in standard form; name its degree and leading coefficient, and add it to $x^2 - 3x$. HARD

9. Write $-5x^4 + 5x^3 + 4x^2 + x + 2$ in standard form; name its degree and leading coefficient, and add it to $x^2 - 3x$. HARD

10. Write $-3x^4 - 4x^3 + 3x^2 - x + 6$ in standard form; name its degree and leading coefficient, and add it to $x^2 - 3x$. HARD