

SPARK Hybrid Education Center

Mathematics | Week 1: Intro to Polynomials | Upper Level

Name: _____ Date: _____

Directions: Solve each problem. Show your work in the space provided. Circle your final answer.

1. Identify the degree of: $3x^2 + 5x - 2$

2. Add: $(3x + 5) + (2x - 3)$

3. Subtract: $(5x^2 + 2x) - (3x^2 - x + 4)$

4. Classify by number of terms: $4x^3 - 2x + 7$

5. Add: $(x^2 + 3x - 1) + (2x^2 - x + 6)$

6. Subtract: $(6x - 4) - (-2x + 3)$

7. What is the leading coefficient of $-7x^3 + 2x - 1$?

8. Add: $(4x^2 - 3x + 2) + (-x^2 + 5x - 8)$

--- Answer Key (Cut before distributing) ---

1. Degree 2
2. $5x + 2$
3. $2x^2 + 3x - 4$
4. Trinomial
5. $3x^2 + 2x + 5$
6. $8x - 7$
7. -7
8. $3x^2 + 2x - 6$

