Proficiency Check 6.1 – Part 1 – Polynomial Basics

Identify the degree of each term and write the expression in Descending Order, group Like Terms if needed.

Emerging	Emerging
1. $2x^2 - 4 + x$ 2 0 1 $2x^2 + x - 4$	2. 1 2 1 0 1 2 $2 + 3x^2 - 4x + 3 - x + 7x^2$ $10x^2 - 5x + 5$ 2 1 0
Proficient	**Proficient**
3. 2 2 2 2 2 2 $-4y^2 + 3xy + 3x^2 - 4xy - 5x^2 + 7y^2$ $3y^2 - xy - 2x^2$ $-2x^2 - xy + 3y^2$ Alphabetical Order if same degree	4. 3 2 3 3 $3x^2y - 4x^3 + 2x^2y + 5y^3$ $5x^2y - 4x^3 + 5y^3$ $-4x^3 + 5x^2y + 5y^3$

Extending
5. 1 0 2 2 2 1 2 2 0 $3x - 4 + 5x^2 + 4y^2 - 2xy + 5x - 2x^2 - 7y^2 + 10$ $8x + 6 + 3x^2 - 3y^2 - 2xy$ $3x^2 - 2xy - 3y^2 + 8x + 6$