

Adding Polynomials (Combining Like Terms!)

- RECALL - Only like terms can go together!
- When you are adding like terms, the variable and exponent always stay the same!
- Sum = _____

Examples: Simplify each expression. Write your answer in standard form.

1. $(2x^2 + 5x) + (7x^2 + 3x)$

2. $(-4x^3 + 7x^5 + 9) + (x^5 + 3x^3 - 6)$

3. $(5a^2 - 1) + (6a^2 + 8) + (3a - 6)$

4. $(8r^4 + r^3 + 2r^2 + r - 8) + (5r^4 + 3r^3 - 2r^2)$

Name: _____

Unit 2 Day 2 Homework

Directions: Simplify each expression. Write your answer in standard form.

$$1. (5p^2 - 3) + (2p^2 + 5)$$

$$2. (8n - 3n^4 + 10n^2) + (3n^2 + 11n^4 - 5n)$$

$$3. (4 + 2n^3) + (5n^3 + 2)$$

$$4. (6y^5 - 8y^3) + (8y^5 + 2y^3) + (12y^3 + 7y^5)$$

$$5. (-4x^4 + 14 + 3x^2) + (3x^4 - 14x^2 - 8)$$

$$6. (a^3 - 2a^2) + (3a^2 - 4a^3)$$

7. What is the sum of $x^3 - 2x^2 + 15$ and $3x^3 + 7x^2 - 11$?