Warmup:

1)
$$(5n-8n^3+7n^2)+(n^3-7-n)$$

 -70^3+7n^2+4n

2)
$$(3v^2+4+7v^4)-(8v^2+8v^3+5v^4)$$

 $2\sqrt{4}$
 $8\sqrt{3}$ — $5\sqrt{2}$
 4

HW #1: Adding and subtracting polynomials Key

Simplify each expression.

1)
$$(2x^3 - 8x^2 - 3x^5) + (3x^3 - 3x^5 - 2x^2)$$

 $-6x^5 + 5x^3 - 10x^2$

2)
$$(2x^2 + 1 + 2x^3) + (6x^2 - 2x^3 + 8)$$

 $8x^2 + 9$

3)
$$(3n^3 + 7n - 3n^5) + (4 + 7n + 7n^5)$$

 $4n^5 + 3n^3 + 14n + 4$

4)
$$(5r^5 - 7r^2 - 1) + (3r^5 - 8 - 8r^2)$$

 $8r^5 - 15r^2 - 9$

5)
$$(4n^2 + 2n + 4n^5) - (8n - 4n^5 + 8)$$

 $8n^5 + 4n^2 - 6n - 8$

6)
$$(3x^2 - 8x - 2x^5) - (3x + 5x^5 + x^2)$$

 $-7x^5 + 2x^2 - 11x$

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

 $-2x^4-4$

8)
$$(4x^2 + 4x^5 - 5x) - (x + 5 - 4x^5)$$

 $8x^5 + 4x^2 - 6x - 5$

9)
$$(2x^2 + 1 + 8x) + (6x - 5 - 3x^2)$$

 $-x^2 + 14x - 4$

10)
$$(5v^4 + 4v^2 + 1) - (v^4 + 2 - 3v^2)$$

 $4v^4 + 7v^2 - 1$

11)
$$(6+6x^4-4x^5)+(4x^4-8x^5+4)$$

-12 x^5+10x^4+10

12)
$$(7a^3 + 8a - 4) + (a - 1 + 4a^3)$$

 $11a^3 + 9a - 5$

13)
$$(8-4n^5+8n)-(4n^5+5n^2-7n)$$

 $-8n^5-5n^2+15n+8$

14)
$$(8r^5 - 6r^3 - r^2) + (4r^3 + r^5 - 4r^2)$$

 $9r^5 - 2r^3 - 5r^2$

15)
$$(5ab^5 + a^3b + 2b^5) - (7ab^5 - 5b^5 + 5a^4b^2)$$

 $-2ab^5 - 5a^4b^2 + 7b^5 + a^3b$
16) $(2x^2y^5 - x^4 - 2) - (2x^2y^5 + 2 + 6x^4)$
 $-7x^4 - 4$

16)
$$(2x^2y^5 - x^4 - 2) - (2x^2y^5 + 2 + 6x^4)$$

 $-7x^4 - 4$

17)
$$(2u^4 - 7u^3v^2 - uv^4) + (7uv^4 - 5u^4 - 3u^3v^2)$$

-10 $u^3v^2 + 6uv^4 - 3u^4$

18)
$$(8x^5y^4 - 3x^4y^5 + 5y^5) + (2x^5y^4 + 4x^4y^5 + 8y^5)$$

 $10x^5y^4 + x^4y^5 + 13y^5$

Classifying Polynomials Game

Adding and Subtracting Polynomial Puzzle

Unit 2 Quiz #1