

# 1.4 Add and Subtract Polynomials

## NOTES

### ALGEBRA

Write your  
questions here!



**MONOMIAL =**

Degree of a monomial –

**POLYNOMIAL =**

Degree of a polynomial –

**Standard Form =**

**Rewrite in standard form and answer the following.**

Standard Form = \_\_\_\_\_

Degree = \_\_\_\_\_

# of Terms = \_\_\_\_\_

$$8y^3 + 10 - 4y + 3y^5$$

Standard Form = \_\_\_\_\_

Degree = \_\_\_\_\_

# of Terms = \_\_\_\_\_

### Polynomial Names

Monomials

Binomials

Trinomials

### Add Polynomials

$$(3w^3 - 3w^2 + 7) + (w^3 + 5w^2 + 2w - 4)$$

### Subtract Polynomials

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



## Simplify Polynomials

$$(2b^2 - 5b - 7) + (b^2 - b - 4)$$

$$3(2c^2 + 5c) + (4c^3 + 5c^2 - 10)$$

$$(7n^4 - 3n^2 + 2) - (n^4 - 2n^2 - 5)$$

### SUMMARY:

Now,  
summarize  
your notes  
here!



## 1.4 Add and Subtract Polynomials

## PRACTICE

Rewrite each polynomial in standard form and then state the degree of the polynomial.

1.  $5x^2 - 4x^3 + 5$

Degree = \_\_\_\_\_

2.  $10x^6 - 13x^7$

Degree = \_\_\_\_\_

3.  $6 - 4g^2 + 7g + 5g^3$

Degree = \_\_\_\_\_

4.  $8 - x$

Degree = \_\_\_\_\_

5.  $4(1 + 3x + 5x^2)$

Degree = \_\_\_\_\_

6.  $16 + x^2$

Degree = \_\_\_\_\_



**Find each sum or difference. Write your solution in standard form.**

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

8.  $(7k^2 + 2k - 6) - (3k^2 - 11k - 8)$

9.  $(4m^2 - m + 2) + (-3m^2 + 10m + 7)$

10.  $(6c^2 + 3c + 9) - (3c - 5)$

11.  $2(n^2 + 2n) - (2n^3 - n^2 + n + 12)$

12.  $3(x^2 + 2) - 4(x^2 + 5)$



## WRAP UP

- ## EXIT TICKET

Perimeter:



Use your polynomial to find the perimeter and area when  $x = 4$ .