1.4 Add and Subtract Polynomials

ALGEBRA

MONOMIAL =



Degree of a monomial –

POLYNOMIAL =

Degree of a polynomial –

Standard Form =

Rewrite in standard form and answer the following.

$$8y^3 + 10 - 4y + 3y^5$$
Standard Form = _____

Monomials

Polynomial Names

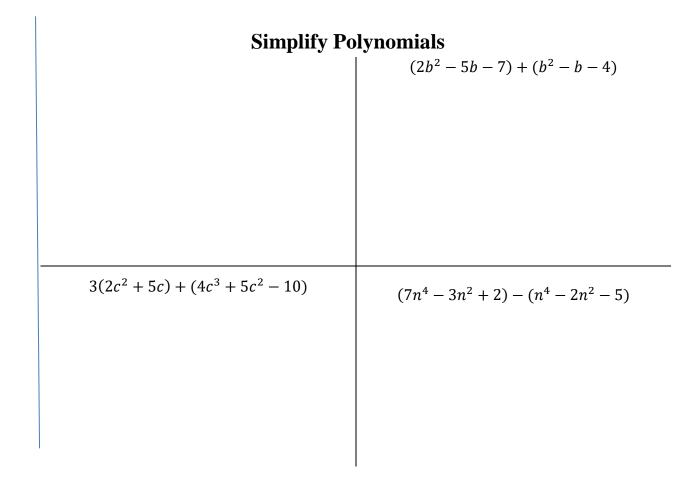
Trinomials

Add Polynomials

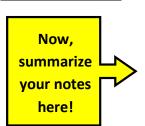
$$(3w^3 - 3w^2 + 7) + (w^3 + 5w^2 + 2w - 4)$$

Subtract Polynomials

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



SUMMARY:



1.4 Add and Subtract Polynomials

PRACTICE

Rewrite each polynomial in standard form and then state the degree of the polynomial.			
1. $5x^2 - 4x^3 + 5$	2. $10x^6 - 13x^7$	$3. 6 - 4g^2 + 7g + 5g^3$	
Degree =	Degree =	Degree =	
4. 8 – <i>x</i>	$5. \ 4(1+3x+5x^2)$	6. $16 + x^2$	
Degree =	Degree =	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. $3(x^2 + 2) - 4(x^2 + 5)$	

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

2. What is the degree of $6x^3 - 5x + 2x^4 + 7$?

3. The expression 3(2m+5)-(8-4m) is equivalent to which of the following expressions?

A) 2m + 7

B) 10m - 3

C) 2m - 3

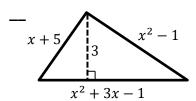
D) 10m - 7

E) none of the above

EXIT TICKET

Write a simplified polynomial to represent the perimeter and area of the triangle below.

Perimeter:



Area:

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