Name	
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## Polynomial Vocabulary

	Term:	Li	Like Terms			Coefficier	<u>Coefficient:</u>		
	$\frac{4xy^2 + 3x - 5}{terms}$ Groupings of numbers and/or variables that are split apart by either addition on		-5x + 4 + 2x = 16		Coefficient	Coefficient Variable			
			"Like Terms"				+x - 7 =	5	
			Terms whose variables ar their exponents are the sa					1	
					ariables and are the same	. Oper	rator Const	BNDS	
	subtraction.					A numb	er in front of variable.	'a	
	2x	Monon	nial	Mono	mials consis	st of 1 term			
	2x + 3y	Binomi	ial	Binon	nials consist	t of 2 terms			
	$2x^2 + 3x + 5$ $\uparrow$ $\uparrow$ $\uparrow$ 1 2 3	Trinom	ial	Trinor	nials consis	t of 3 terms.			
	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		nomial If there are more the term polyr			nan 3 terms, omial.			
Like terms a	re defined as having the	same		and	d the same _		·		
When adding	g and subtracting polynon	nials, yo	u add ar	nd sub <sup>.</sup>	tract				
Adding Poly 1.	nomials: Remove parentheses and 1	rewrite	each te	rm.	Subtracting	<b>g Polynomials</b> n is the same	: thing as add	ling the	
2. Combine terms!				1. Remove the parentheses from the first expression and rewrite each term;					
** <u>Note</u> : Final answers should be in				2		c	hange the signs.		
<u>Example 1</u> : S	Simplify.	maisi			۲.	the second e	xpression, cl	hange each term	
(a) (127 	$m^2 + 4) + (8m^2 + 5)$	=		_	3.	sıgn.		like terms.	
(b) (6s <sup>2</sup>	$(2^{2} + 3s + 7) + (2s^{3} - 6s)$	s – 4) +	=	:	Example 2: (a) (2x Rewrite : Combine Li	Simplify. $x^3 + 4x^2 - 6$ ike Terms:	$) - (5x^3 +$	2 <i>x</i> <sup>2</sup> - 2)	
						+	+	=	

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What if it looks a little different?	
REMEMBER, DISTRIBUTE MEANS TO MULTIPLY!!!	
What about these: $5(2x^2 - 3x + 10) + 3(3x^2 + 2x - 10)$ 1. Distribute the outside of the FIRST!	
2. Follow Steps Above Try it (c) $5(2x^2 - 3x + 10) + 3(3x^2 + 2x - 10)$	
Distribute First:	
Combine Like Terms:	
<u>What if it looks like this</u> : $5(2x^2 - 3x + 10) - 3(3x^2 + 2x - 10)$	
<ol> <li>Distribute the outside of the parenthesis to each FIRST!</li> </ol>	
Multiply:	
<ol><li>Be Mindful of the MINUS! Change the sign of the second set of parenthesis. Rewrite your problem.</li></ol>	
Rewrite:	
3. Combine terms. Try it	