Warm-Up

Votes - Foldable

Activity - Dice Game

HW - Practice

#1-12

Reminders

- Test Friday! Signed PR due Fri All Unit 6 HW due Friday!

Essential Questions How do I classify polynomials? How do I add & subtract two polynomials?

--Warm-Up Monday

Simplify the following expressions completely.

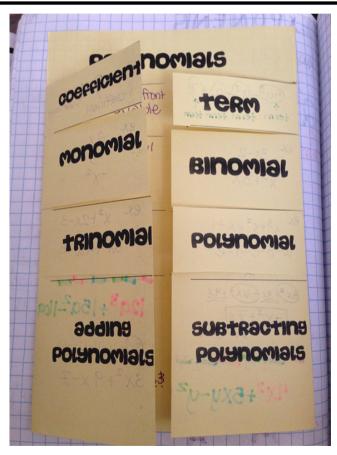
1.
$$\left(-3c^7d^3\right)^2 = \left(-3c^7d^3\right)^{(-3c^7d^3)} = 9c^{14}d^{14}$$

2.
$$\frac{-1x^2 - 2x + 3x + 4x^2}{3x^2 + 1}$$

Foldable page p. 74

Essential How do I classify polynomials?

Questions How do I add & subtract two polynomials'



Fold sides into middle Cut along solid lines.

**Be careful of problems inside bottom 2 flaps!!

<u> Polynomals</u>				
coefficient	term			
monomal	BINOMIAL			
trinomal	Polynomal			
addin9	SUBTRACTIN9			
Polynomals	Polynomals			

	Polyn	<u>omals</u>	
2X Const	The number in front of the variable.	A single number or variable OR #'s and variables multiplied together Separated by a + or -	<u>5a³=a²+a+7</u> 4 +erms
ex. 2x (abc) ² 7	Expression with ONE term	Expression with terms.	ex- x-2 3x ² +x
ex: ex+ b-c 2x ² -x+1	Expression with terms.		149-C+9-6 13+73+X+1
1292+1592-169 trinomial	combine like terms	the negative to zind set of paventheigh	(5x +3x)= (6x -4x) + + + x binomial
(3x² +2x-1)+(9x=6) 3x²+9 X-7 trinomial	* must have same letter AND same exponent	then combine like terms 4	$(6x^{2}+8xy-3y^{2})-(2x^{2}+3xy-2y^{2})$

<u> Activity - Polynomial Die!</u>

You and your shoulder partner will receive a die with <u>monomials</u> on each side. For each row on the table, you will roll your die 4 times, recording each roll. Then you will combine any like terms and classify your polynomial as a monomial, binomial, or trinomial.

						,
		1 st ROLL	2 ^{no} ROLL	3 ^{ro} ROLL	4 [™] ROLL	COMBINE LIKE TERMS NAME
	T					
	2					
	3					
	4					
(5			~	4	0 1011101
	6		P	11	Ö	() () () () () () () () () ()

You will then perform the stated operation with the polynomials you found in your table. Use the polynomial in the "combine like terms" column. Don't forget to distribute the negative for subtraction!!

Due by the end of the period!



Tonight's HW: 1 page!

Algebra I - Unit 6: Topic 2 – Adding and Subtracting Polynomials

Practice - Adding and Subtracting Polynomials

__ Period __

Classify each polynomial according to the number of terms.

1.
$$5n^3 + 4n$$

2.
$$4y^6 - 5y^3 + 2y - 9$$

2.
$$4y^6 - 5y^3 + 2y - 9$$
 3. $3b^7 + 9b^5 + 2b^7 - 5$

4.
$$\frac{1}{4}wx^5y^2z^2$$

Simplify the following polynomials.

5.
$$4.4x^2 + 3.1x - 6.3x - 2x^2$$

6.
$$(2t^2 - 8t) + (8t^2 + 9t)$$

7.
$$(3x^2 - x) - (x^2 + 3x - x)$$

8.
$$(-7x^2 - 2x + 3) + (4x^2 - 9x)$$

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

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

11. The recreation field at Huffines Park is shaped like a rectangle with a length of 15x yards and a width of 10x - 3yards. Write a polynomial in simplest form for the perimeter of the field. Then calculate the perimeter if x = 2.

12. Darnell and Stephanie have competing vending machine businesses. Darnell's profit can be modeled with the polynomial $c^2 + 8c - 100$. Were c is the number of items sold. Stephanie's profit can be modeled with the polynomial $2c^2 - 7c - 200$. Write a polynomial in simplest form to show how much money they can expect to earn if they decided to combine their businesses.

HW Help: Adding & Subtracting Polynomials

NO WORK = NO CREDIT = NO KIDDING

Help...

#1-4. Remember to combine like terms before classifying. One term = mono, two terms = bi, three terms=tri, and 4+ terms = polynomial.

#5-10. Like terms have the same letter & same exponent...then you just add the coefficients! If you subtract a polynomial, you must distribute the negative to EVERY term in the parenthesis!

11. To find perimeter ADD all the sides. Then plug in x=2 into your simplified expression.

12. Combining would be ADDING. So add the 2 polynomials!!

Solutions....

Answers:

- 1. Binomial
- 2. Polynomial
- Trinomial
- Monomial
- 5. $2.4x^2 3.2x$
- 6. $10t^2 + t$
- 7. $2x^2 3x$
- 8. $-3x^2 11x + 3$
- 9. $3x^2 + 5x + 2$
- 10. $-2x^2 7x + 10$
- 11. P = 50x 6; 94 yards
- 12. $3c^2 + c 300$