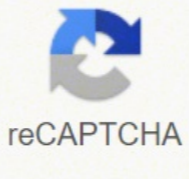




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Degree of Trinomials

Sheet 1

Write the degree of each trinomial.

1) $2u + u^2 + 3$

2) $-pq - 4p^2qr - r^3$

3) $x^6y^2z + x^4y - z^3$

4) $-a^2bc^4 + 7 + 4a^5$

5) $m^2 - n^2 + 8$

6) $2s^3 + s^4 - s^6$

7) $6p^2 - q^2 - 2p^2q^2r$

8) $-x + y + 1$

9) $-c^4 - cd^2 - c^2d$

10) $5u^2vw^3 - 3v^0 + uw^4$

11) $k^2 + 9k + 9$

12) $4 - h^2 - 3gh$

Factoring Polynomials Worksheet

- Factor the following:
- $x^2 - 16$
 - $4x^2 - 9$
 - $x^2 - 25$
 - $36x^2 - 49$
 - $64x^2 - 81$
 - $100x^2 - 49$
 - $4x^2 - 81$
 - $25x^2 - 16$
 - $x^2 - 36$
 - $16x^2 - 81$
 - $4x^2 - 9$
 - $25x^2 - 16$
 - $4x^2 - 81$
 - $64x^2 - 81$
 - $100x^2 - 81$
 - $4x^2 - 9$
 - $25x^2 - 16$
 - $4x^2 - 81$
 - $64x^2 - 81$
 - $100x^2 - 81$
 - $4x^2 - 9$
 - $25x^2 - 16$
 - $4x^2 - 81$
 - $64x^2 - 81$
 - $100x^2 - 81$
 - $4x^2 - 9$
 - $25x^2 - 16$
 - $4x^2 - 81$
 - $64x^2 - 81$
 - $100x^2 - 81$

Name: _____

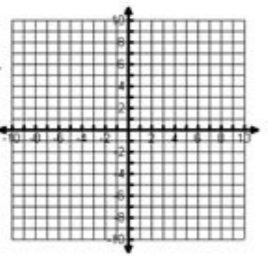
Naming Polynomials - Partners Check Activity

Directions: Try your columns. Name the polynomial. Then check with your partner. Each of you should have the same answer. If your answers are different, collaborate to find errors.

PARTNER A	ANSWER	PARTNER B
1) $2p^2 + 3p^3$		1) $3a^2 + 3a^3$
2) $3a^2y$		2) $-6a^2y^2$
3) $-8x^2 - 2x + 1$		3) $8x^2 - 12x + 1$
4) $7 + 4d$		4) $4d - 3$
5) $x - 4d^2y$		5) $3a^2 - 4d$
6) $2b + 9$		6) $3a^2y^2 + y^{20}$
7) $xy + d^2$		7) $m - 1$
8) $\frac{1}{p} - 7a^2$		8) $4xy + 14xy - 3$
9) $18m - 3m$		9) $14 - 3ay^2$
10) $6y^2$		10) $7a^2 - 7a^2$
11) $\frac{a^2}{x} - 3a + 12y$		11) $\frac{8a^2}{x} + 14a - 9y$
12) abc		12) $133def$
13) $m^2 + 6m^2 - 8$		13) a^2
14) $3a^4 - 3a^2$		14) $6y^2$

6.2 Graphing Polynomial Functions in Factored Form

1. $y = (x-1)(x-2)(x+3)$ From what we know about functions, if we set the expression equal to 0, where would you expect this function to cross the x-axis?

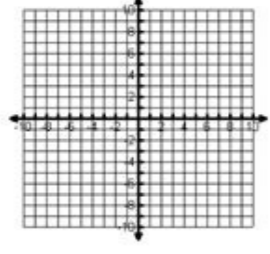


Now multiply it out and see the function in standard form.

Is the graph going to be quadratic? Why or why not?

Graph the function with the calculator.

2. $f(x) = (-x+3)(x+2)(x-1)$ Follow the same steps as number 1. Where do you expect the function to cross the x-axis?



Multiply it out and write in standard form.

Is the graph going to be quadratic? Why or why not?

Graph the function with the calculator.

3. When the functions are written in standard form, what is the degree of the function in questions 1 and 2? What is similar about the 2 graphs? What is different about the 2 graphs? What do you think caused this to happen?

Table with 2 columns: Polynomial, Degree. Rows include examples like 3x^2-3x+1, 5x^2-2x+1, etc.

3x^2-3x+1 3. Examples: 5x^2-2x+1 The highest exponent is 2, so this is a second degree trinomial. Please leave a comment. 8x-1 While there seems to be no exponent, the x has an understood exponent of 1; therefore, this is a binomial of 1st degree. For example: 5x^2 -4x A trinomial has three terms. Grade. Classify these polynomials according to their grade. 3x^2y^5 Since both variables are part of the same term, we must sum their exponents together to determine the degree. 8xy 5 has been added. (getToolbarWorksheetName ()) to your worksheets! Worksheet added to your worksheets! Don't forget to leave a comment. 3x^4+4x^2The highest exponent is the 4 so it is a 4th degree binomial. For example: 3y^2+5y-2 Any polynomial with four or more terms is called a polynomial. For example: 2y^5+ 7y^3- 5y^2+9y-2 Practice of classifying these polynomials by the number of terms: 1. 5y 2. So, this is a monomial of 0 degrees. 1. So technically, 5 could be written as 5x^0. A monomial has only one term. 3x^4+x^2-5x+9 Answers: 1) Monomial 2) Trinity 3) Binomial 4) Monomial 5) Polynomial 2. 5 There is no variable. 2+5=7 so it is a 7th degree monomial. Print {{ws_solutions.user.firstname}} {{ws_solutions.user.lastname}} Answers {{ws_solutions.user.username}} Answers Task is already closed Start creating a Free! Polynomials can be classified in two different ways a) by the number of terms and by their degree. The degree of the polynomial is found by looking at the term with the highest exponent in its variables. 1.7x^3+52+1 2.6y^5+9y^2-3y+8 3.8x-4 4.9x^2y+3 5.12x^2 Answers 1) 3rd degree 2) 5th degree 3) 1st degree 4) 3rd degree 5) 2nd degree Related Links: Polynomial of Mathematical Algebra Topics A binomial has two terms Oh, yes. 5y-10 4. For example, 4x^2.Remember that a term contains both the variable (s) its coefficient (the number in front of A 0 1). So he's 3 a term. Is 0 degrees because x^0=1. x^0=1. x^0=1.

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