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# How to simplify radicals calculator with steps

Enter the expression, for example  $(x^2-y^2)/(x-y)$  In Section 3 of Chapter 1 there are several very important definitions, which we have used many times. Since these definitions take a new importance in this chapter, we will repeat them. When an algebraic expression is composed of parts connected with + or - signs, these parts, along with their signs, are called the terms of the expression.  $a + b$  has two terms.  $2x + 5y - 3$  has three terms. In  $a + b$  the terms are  $a$  and  $b$ . In  $2x + 5y - 3$  terms are  $2x$ ,  $5y$  and  $-3$ . When an algebraic expression is composed of parts to multiply, these parts are called expression factors.  $ab$  has factors,  $a$  and  $b$ . It is very important to distinguish between terms and factors. The rules that apply to terms do not apply, in general, to factors. When naming terms or factors, you need to consider the whole expression. From now on through the whole algebra you will use the term and the factor of words. Make sure you understand the definitions. An exponent is a numeral used to indicate how many times a factor should be used in a product. An exponent is usually written as a smaller number (in size) slightly higher and right of the factor affected by the exponent. An exponent is sometimes referred to as "power". For example, 53 could be referred to as "five to the third power". Note the difference between  $2x3$  and  $(2x)3$ . From the use of brackets as grouping symbols we see that  $2x3$  means  $2(x)(x)(x)$ , while  $(2x)3$  means  $(2x)(2x)(2x)$  or  $8x3$ . Unless brackets are used, the exponent only affects the directly preceding factor. In an expression like  $5x4$  5 is the coefficient,  $x$  is the base, 4 is the exponent.  $5x4$  means  $5(x)(x)(x)(x)$ . Note that only the base is influenced by the exponent. Many students make the mistake of multiplying the base for the exponent. For example, they will say  $34 = 12$  instead of the correct answer,  $34 = 81$ . When we write a literal number like  $x$ , you will understand that the coefficient is and the exponent is one. This can be very important in many operations.  $x$  means  $1x1$ . It is also understood that a numeral written as 3 has an exponent of 1. We do not care to write an exponent of 1. LAW OF MULTIPLICATION OF OBJECTIVE EXPERTS At the end of this section you should be able to correctly apply the first law of exponents. Now that we have examined these definitions we want to establish the very important laws of the exponents. These laws derive directly from definitions. First law of exponents If one and  $b$  are whole positives and  $x$  is a real number, then multiply the factors that have the same base add the exponents. For any rule, law or formula we must always be very careful to meet the conditions required before attempting to apply it. Note in the law above that the basis is the same in both factors. This law applies only when this condition is met. These factors do not have the same base. An exponent of 1 is not usually written. When we write  $x$ , the exponent is assumed:  $x = x1$ . This fact is necessary to apply the laws of the exponents. If an expression contains the product of different bases, we apply the law to those bases that are similarly. MULTIPLICATION OF MONOMICS OBJECTIVES At the end of this section you should be able to: Recognize a monomial. Find the product of different monomials. A monomial is an algebraic expression in which the literal numbers are connected only by the operation of multiplication. is not a monomeal since the addition operation is involved. involves the operation of the division. To find the product of two monomials multiply the numerical coefficients and apply the first law of exponents to literal factors. Do you remember the first exponent law? Multiply 5 times 3 and add  $x$  exponents. Remember, if an exponent is not written, includes a member of one. multi-million polynomial lenses at the end of this section should be able to: recognize polynomials. identify binomi and andFind the product of a monomeal and binomium. A polynomial is the sum or difference of one or more monomials. Generally, if there is more than one variable, a polynomial is written in alphabetical order. Special names are used for some polynomials. If a polynomial has two terms, it's called binomial. If a polynomial has three terms it is called a trinomy. In the process of removal of the brackets we have already noticed that all the terms in the brackets are influenced by the sign or number preceding the brackets. Now we extend this idea to multiply a monomial from a polynomial. Positioning  $2x$  directly in front of the bracket means multiplying the expression in brackets by  $2x$ . Notice each term is multiplied by  $2x$ . Again, each term in brackets is multiplied by  $3y2$  Again, each term in brackets is multiplied by  $3y2$ . In each of these examples we use the distribution property. PRODUCTS OF POLYNOMIAL OBJECTIVES At the end of this section you should be able to: Find the product of two binomi. Use the distribution property to multiply any two polynomials. In the previous section you learned that the  $A(2x + y)$  product expands to  $A(2x) + A(y)$ . Now consider the product  $(3x + z)(2x + y)$ . Since  $(3x + z)$  is in brackets, we can treat it as a single factor and expand it  $(3x + z)(2x + y)$  in the same way as  $A(2x + y)$ . This gives us If we now expand each of these terms, we have Notice that in the final answer each term of a bracket is multiplied by each term of the other brackets. Note that this is an application of the distribution property. Note that this is an application of the distribution property. Since  $-8x$  and  $15x$  are similar terms, we can combine them to get  $7x$ . In this example we managed to combine two of the terms to simplify the final answer. Once again we have combined some terms to simplify thefinal. Note that the order of the terms in the final answer does not affect the correctness of the solution. The switchallows the reset of the order. Try to establish a system to multiply each term of a bracket for each term of the other. In these examples we took the first term in the first set of brackets and multiplied it for each term in the second set of brackets. Then we took the second term of the first set and multiplied it for each term of the second set, and so on. POTERS POTERS AND WATER At the end of this section you should be able to: correctly apply the second law of exponents. Find square roots and the main square roots of numbers that are perfect squares. We now want to establish a second law of exponents. Note in the following examples how this law is derived using the definition of an exponent and the first law of exponents. to the meaning of exponent 3. Now, for the first law of exponents we have in general, we notice that the answer will be Remembering, multiplying the common bases add the exponents. If we conclude the term  $a$   $b$  times, we have the product of one and  $b$ . So let's see that the Second Law of Representatives If one and  $b$  are whole positive and  $x$  is a real number, then . In words, "to raise a power of the base  $x$  to a power, multiply the exponents." . Note that each exponent must be multiplied by 4. Note that when the factors are grouped in brackets, each factor is influenced by the exponent. Again, every factor must be raised to the third power. Using the definition of exponents,  $(5)2 = 25$ . Let's say 25 is the square of 5. We now introduce a new term in our Algerian language. If 25 is the square of 5, then 5 is said to be a square root of 25. If  $x2 = y$ , then  $x$  is a square root of  $y$ . Notice, say 5 is a square root and not the square root. You'll see why soon. From the last two examples you will notice that 49 has two square roots, 7 and -it is true, in fact, that every positive number has two square roots. In fact, a square root is positive and the other negative. . which are square roots36? The main square root of a positive number is the positive square root. The symbol "" is called a radical sign and indicates the main square root or positive square root of 9. Note the difference in these two problems. a. Find the square roots of 25. b. It is very important that you understand the difference between these two statements. For a. the answer is +5 and -5 from  $(+5)2 = 25$  and  $(-5)2 = 25$ . For b. the answer is +5 since the radical sign represents the main or positive square root. The whole numbers like 16, 25, 36, and so on, whose square roots are integer, are called perfect square numbers. For the moment we are only interested in square roots of perfect square numbers. In a next chapter we will take care to estimate and simplify the square root indicated of numbers that are not perfect square numbers. You can sometimes see the +/- symbol. This means that both square roots of a number are called for. For example, +/- 5 is the short way to write + 5 and -5. At the end of this section you should be able to correctly apply the third law of exponents. Before proceeding to establish the third law of exponents, before reviewing some facts about the operation of the division. The division of two numbers can be indicated by the sign of division or writing a number on the other with a bar between them. You are divided by two is written as Division is related to the multiplication by the rule if then  $a = be$ . This is a control for all division problems. For example, we know why  $18 = 6(3)$ . The division to zero is impossible. To evaluate we are required to find a number that, when multiplied by zero, will give 5. No such number exists. A non-zero number divided by itself is 1. . Multiplicate the quantities you look for to get  $a$ . This is very important! If a numberzero, then it does not mean. from (3) we see that an expression like that is not significant unless we know- It's just something. In this and in future sections each time we write a fraction it is assumed that the denominator is not equal to zero. Now, to establish the law of division of the exponents, we will use the definition of exponents. Important! Read this paragraph again! We know that = 1. We are also assuming that  $x$  represents a non-zero number. In this example we should not separate the quantities if we remember that a quantity divided by itself is equal to one. In the previous example we could write Three  $x$  s in the denominator will divide three  $x$  s into the numberer. Remember that the 1 must be written if it is the only term in the numberer. From previous examples we can generalize and arrive at the following law: Third law of exponents If one and  $b$  are whole positive and  $x$  is a non-zero real number, then If we try to use only the part of the law that states on an expression like we would get At this point negative exponents were not defined. We'll discuss it later. DEVELOPING A MONOMIC OF A MONOMIC OBJECTIVE At the end of this section you should be able to simplify an expression by reducing a fraction involving coefficients and using the third law of exponents. We must remember that coefficients and exponents are controlled by different laws because they have different definitions. In monomial division the coefficients are divided while the exponents are subtracted according to the law of division of the exponents. If no division is possible or if only the reduction of a fraction is possible with coefficients, this does not affect the use of the law of the exponents for the division. Reduce this type of fraction in two stages: 1. Reduce coefficients. 2. Use the third law of the exponents. DEVELOPMENT OF A POLYNOMIA FOR A MONOMIC OBJECTIVE At the end of this section you should be able to divide a polynomial from a monomial. Divide a polynomial from a monomiala very important fact in addition to things we have already used. This is the fact: Whens are different terms in the numberer of a fraction, so each term must be divided by the denominator. So, we are actually using the distribution property in this process. DEVELOPMENT OF A POLYNOMIA FOR A BINOMIAL OBJECTIVE At the end of this section you should be able to correctly apply the long division algorithm to divide a polynomial from a binomy. The process for the division of a polynomial from another polynomial will be a valuable tool in subsequent subjects. Here we will develop the technique and discuss the reasons why it works in the future. This technique is called the long-division algorithm. An algorithm is simply a method that must be exactly followed. Therefore, we will present it in a step-by-step format and for example. Recall the three expressions in the division: If we are asked to organize the expression in descending powers, we will write. The zero coefficient gives  $0x3 = 0$ . This is why the word  $x3$  was missing or not written in the original expression. Step 1: Organize both the divider and the divider in descending powers of the variable (this means first higher exponent, second, and so on) and provide a zero coefficient for any missing term. (In this example, the layout must not be changed and there are no missing terms.) Then arrange the divider and dividing in the following way: Step 2: To obtain the first term of the quotient, divide the first term of the dividend by the first term of the divider, in this case. Step 3: Multiply the entire divider for the term obtained in step 2. Subtract the result from the dividend as follows: Make sure to write the quotient directly on the amount in which you divide. In this case  $x$  is divided into  $x2$   $x$  times. Step 4: Divide the first term of the remaining within the first term of the divider to get the termof the quotient. Then multiply the entire divider by the resulting term and subtract again as follows: The first term of the rest  $(-2x - 14)$  is  $-2x$ .  $-2x.(x + 7) = -2$ . This process is repeated until the rest is zero (as in this example) or the power of the first term of the rest is lower than the power of the first term of the divider. As in arithmetics, the division is controlled by multiplication. We must remember that (quotient)  $X$  (divisor) + (remainder) = (dividend). To verify this example multiply  $(x + 7)$  and  $(x - 2)$  to get  $x2 + 5x - 14$ . Because this is the dividing, the answer is correct. Once again, (quotient)  $X$  (divisor) + (remainder) = (dividing) The answer is  $x - 3$ . Control, we find  $(x + 3)(x - 3)$  A common error is to forget to write the missing term with a zero coefficient. SUMMARY Keywords A monomial is an algebraic expression in which the literal numbers are connected only by the operation of multiplication. A polynomial is the sum or difference of one or more monomials. A binomy is a polynomial with two terms. A trinomy is a polynomial with three terms. If  $x2 = y$ , then  $x$  is a square root of  $y$ . The main square root of a positive number is the positive square root. The symbol is called a radical sign and indicates the main square root of a number. A perfect square number has whole like its square roots. Procedures The first law of the exponents is  $xaxb = xa+b$ . To find the product of two monomials multiply the numerical coefficients and apply the first law of exponents to literal factors. Multiply a polynomial from another polynomial multiply each term of a polynomial for each term of the other and combine as terms. The second law of the exponents is  $(xa)b = xab$ . The third law of the exponents is to divide a monomial from a monomial divide the numerical coefficients and use the third law of the exponents for the literal numbers. Divide a polynomial from a monomial divide each term of polynomial from monomial. To divide a polynomial from ause the long division algorithm. algorithm. algorithm. how do you simplify radicals step by step. how to simplify radicals steps. how to simplify radicals step by step

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