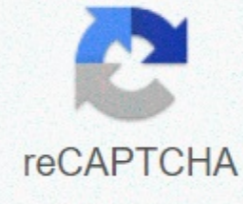




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## Infinitely many solutions calculator

This calculator solves linear equation systems using Gauss removal method, inverse matrix method or Kramer rule. You can also calculate a number of solutions in a linear equation system (compatibility analysis) using the Rouché–Capelli theory. Enter your system coefficients into the input fields. Leave cells blank for variables that do not participate in your equations. To use input fraction *f*: 1/3. 2x-2y+z=-3 x+3y-2z=1 3x-y-z=2 Leave additional cells blank to enter non-square matrices. You can use fractions (limited and periodic) 1/3, 3.14, -1.3(56), or 1.2e-4; or arithmetic expressions: 2/3+3\*(10-4), (1+x)/y^2, 2^0.5, 2^(1/3), 2^n, sin(phi), or cos(3.142rad). Use **↵** enter space, **←**, **→**, **⊞**, **⊖**, and delete to move between cells, **CtrlⓈ** **Cmd+C/CtrlⓈ** **Cmd+V** to copy/paste the matrix. Drag and drop the matrix of results, or even from/to the text editor. Use Wikipedia to learn more about matrices. Clear cells or inserts most of the time, we want to find an ordered pair that is a solution for two different linear equations. One way to obtain such an ordered pair is by graphing two equations on a set of axes and determining the coordinates of the point at which they are mingling. Example 1 graph equations  $x + y = 5$   $x - y = 1$  on the same set of axes and determine the arranged pair which is a solution for each equation. Using the graphing tracking method, we find that there are two arranged pairs that are  $x + y = 5$  solutions (0, 5) and (5, 0) and two ordered pairs that are  $x - y = 1$  solutions (0,-1) and (1,0) equation graphs shown. The intersection point is (3, 2). In this way (3, 2) must meet each equation. In fact,  $3 + 2 = 5$  and  $3 - 2 = 1$  in general graphical solutions are only approximate. We will develop methods for detailed solutions in later sectors. Linear equations that are considered together in this mode are called a system of equations. As in the example above, the solution to a linear equations system can be a single-order pair. The components of this ordered couple satisfy each of the two equations. Some systems do not have a solution, while others have an infinite number of events. If the graphs of equations do not disrupt a system- it is, if the lines are parallel (see figure 8.1a)-equations are said to be uncoordinated, and there are no ordered pairs that meet both equations. If the graphs of equations are a line (see figure 8.1b), the equations are said to be dependent, and each ordered pair that satisfies an equation will satisfy both equations. Note that when a system is uncoordinated, the domains of the lines are the same but y intercepts are different. When a system is dependent, domains and y-intercepts are the same. In our work, we will primarily be interested in systems that have one and only one solution and It is said to be consistent and independent. The graph of such a system is shown in example 1 solution. Solving systems in addition to me we can solve equation systems algebraicly. What is more, the solutions we obtained with algebraic methods are accurate. The system, for example, is the following system that we considered in section 8.1 on page 335. Example 1 Solve  $x + y = 5(1)$  $x - y = 1(2)$  Solution we can achieve an equation in a variable by adding equations (1) and (2) solving the resulting equation for x returns  $2x = 6$ ,  $x = 3$  we can now replace 3 for x in both equations (1) or equation (2) to get the corresponding value of y. In this case, we select and obtain the equation (1)  $3 + y = 5$   $y = 2$  thus, the solution is  $x = 3$ ,  $y = 2$ ; Notice that we are simply applying extra equality property so we can obtain an equation containing a single variable. The equation in a variable, along with each of the main equations, then forms an equivalent system, the solution of which is easily achieved. In the example above, we were able to obtain an equation in a variable by adding equations (1) and (2) because the terms +y and -y are each other's negatives. Sometimes it is necessary to multiply each member of one of the equations by -1 so that the terms in the same variable have opposite signs. Example 2 Solve  $2a + b = 4$  (3)  $a + b = 3$  (4) Solution We begin by multiplying each member of equation (4) by -1, to obtain  $2a + b = 4$  (3)  $-a - b = -3$  (4') where +b and -b are negatives of each other. The 'symbol', called the prime, represents an equivalent equation, which is the equation that has the same solutions as the original equation. Thus, the equation (4') is equivalent to the equation (4). Now add equations (3) and (4'), we have replaced 1 for a in equation (3) or equation (4) [say, equation (4)], we obtain  $1 + b = 3$   $b = 2$  and our solution is = 1, B = 2 or (1, 2). When variables are a and b, the arranged pair is given as (a, b). Solving systems by ADDITION II as we saw in section 8.2, solving a system of equations plus depends on one of the variables in both equations having coefficients that are negative for each other. If that's not the case, we can find equivalent equations that have variables with such coefficients. Example 1 System Solver  $-5x + 3y = -11$   $7x - 2y = -3$  Solution if we multiply each equation member (1) in 2 and each equation member (2) in 3, equivalent system (2)  $(-5x) + (2)(3y) = (2)(-11)$  (3)  $(-7x) - (3)(2y) = (3)(-3)$  (3) or  $-10x + 6y = -22$  (1')  $-21x - 6y = -9$  (2') now, add equations (1) and (2') , we get  $-31x = -31$   $x = 1$  Substituting 1 for x in Equation (1) yields  $-5(1) + 3y = -11$   $3y = -6$   $y = -2$  The solution is  $x = 1$ ,  $y = -2$  or (1, -2). Note that in equations (1) and (2), the terms for variables are in the member of the left hand and the term is constant rightman . Such arrangements will be referred to as the standard form for systems. It is convenient to arrange the system in standard form before acting with your solution. For example, if we wanted to solve the  $3y = 5x - 11$   $-7x = 2y - 3$  system, we would first write the system as standard by adding  $-5x$  to each member of the equation (3) and adding  $-2y$  to each member of the equation (4). So, we have  $-5x + 3y = -11$   $-7x - 2y = -3$  and we can now continue as shown above. By replacing systems in sections 8.2 and 8.3, we solved first-class equation systems in two logs capable of the added method. Another method called replacement method can also be used to solve such systems. Example 1 Solving system  $-2x + y = 1$  (1)  $x + 2y = 17$  (2) Solving equation (1) for y in terms of x, we obtain  $y = 2x + 1$  (1') We can now substitute  $2x + 1$  for y in Equation (2) to obtain  $x + 2(2x + 1) = 17$   $x + 2 + 4x = 17$   $5x = 15$   $x = 3$  (continued) Substituting 3 for x in Equation (1') , we have  $y = 2(3) + 1 = 7$  Thus, the solution of the system is a:  $x = 3$ ,  $y = 7$ ; or (3, 7). In the example above, it was easy to express y explicitly in terms of x using equation (1). But we could also use the equation (2) to write explicit x in terms of  $y$   $x = -2y + 17$  (2') now replace  $-2y + 17$  for x in equation E (1), we replace 7 for y in equation (2), we  $x = -2$  (7)  $+ 17 = 3$  system solution is again (3, 7). Note that the replacement method is useful if we can easily express one variable in terms of another variable. Applications that use two variables if the two variables are associated with a single class equation, there are infinitely many ordered pairs that are equation solutions. But if the two variables are associated with two independent first-class equations, there can be only one pair ordered to be a solution from both equations. Therefore, two independent relationships must be shown using two equations to solve problems using two variables. We can often solve problems using a system of equations more easily than using a single equation that contains a variable. We will follow the six steps specified in page 115, with minor changes as shown in the next example. Example 1 is the sum of two numbers 26. The larger number 2 is more than three times the smaller number. Find the numbers solution steps 1-2 we represent what we want to find as two word phrases. Then we show the word expressions in terms of two variables. Smaller number: x larger number: y Step 3 A sketch is not applicable. Step 4, now we need to write two equations indicating the conditions expressed. The sum of two numbers is 26. Step 5: To find numbers, we solve the  $x + y = 26$  (1)  $y = 2 + 3x$  (2) system since it explicitly shows the equation (2) y in terms of x, we will solve the system with the method of replacing it. Replace  $2 + 3x$  for y in equation We  $x + (2 + 3x) = 26$   $4x = 24$   $x = 6$  replacement 6 for x in equation (2), we  $y = 2 + 3(6) = 20$  steps 6 smaller numbers 6 and larger number 20. The chapter summarizes the two equations intended together forming a system of equations. The solution is generally an ordered single pair. If the graphs of equations are parallel lines, they are called uncoordinated equations; We can solve a system of equations with an added method if we first write the system as standard where the terms relate to variables in the left hand member and the constant term in the right hand member. We can solve a system of equations with an alternative method if a variable in at least one equation in the system is first explicitly expressed in terms of the other variable. We can solve word issues by using two variables by showing two independent relationships by two equations. This solver (calculator) will try to solve a system of 2, 3, 4, 5 equations of any kind, including polynate, logical, irrational, exponential, logarithmic, trigonometric, hyperbolic, absolute value, etc. It can find both real and complex solutions. To solve a linear equation system with steps, use the linear equation calculator system. Generally speaking, you can give up the multiplication mark, so '5x' is equivalent to '5\*x'. Generally speaking, you can skip the promets, but be very careful:  $e^{*3}x$  is 'e^\*3x', and  $e^*(3x)$  is 'e^(3x)'. Also, be careful when you write fractions:  $1/x^2 \ln(x)$  '1/x^2 ln(x)', And  $1/(x^2 \ln(x))$  is '1/(x^2 ln(x))'. Sometimes I see phrases such as  $\tan^{-2}x \sec^3x$ : it will be parsed as ' $\tan^{(-2*3)}(x \sec(x))$ ' to get ' $\tan^{-2}(x) \sec^3(x)$ ', use the promoters:  $\tan^{-2}(x) \sec^3(x)$ . Similarly,  $\tan x \sec^3 x$  will be parsed as ' $\tan(x \sec^3(x))$ ' : ' $\tan(x) \sec^3(x)$ '. From the table below, you can find that sech is not supported, but you can still insert it using the identity ' $\text{sech}(x)=1/\cosh(x)$ '. If you get an error, double check your expression, add prnches and multiplication marks if needed, and consult the table below. All suggestions and improvements are welcome. Please leave them in the comments. The following table contains supported operations and functions: TypeGet Constants ee pi/pi i (imaginary unit) Operation a+ba+b a-ba-b a^b^a^b a^b, a b^a^b^sqrt(x), x^(1/2)^sqrt(x) cbrn(x), x^(1/3)^root(3)(x) root(x,n), x^((1/n)^root(n)(x)) x^(a/b)^x^(a/b) x^a^a^b^x^(a^b) abs(x)|x| Functions e^x^e^x ln(x), log(x)ln(x) ln(x)/ln(a)^log\_a(x) Trigonometric Functions sin(x)sin(x) cos(x)cos(x) tan(x) tan(x tan(x)), tg(x) cot(x)cot(x), ctg(x) sec(x)sec(x) csc(x)csc(x), cosec(x) Inverse Trigonometric Functions asin(x) , arcsin(x), acos(x), arccos(x), cos^-1(x)acos(x) atan(x), arctan(x), tan^-1(x)atan(x) acot(x), arccot(x), cot^-1(x)acot(x) asec(x), arcsec(x), sec^-1(x)asec(x) acsc(x), arccsc(x), csc^-1(x)acsc(x) Hyperbolic Functions sinh(x)sinh(x) cosh(x)cosh(x)cosh(x) tanh(x)tanh(x) coth(x)coth(x) 1/cosh(x)sech(x) 1/sinh(x)csch(x) Inverse Hyperbolic Functions asinh(x), arcsinh(x), sinh^-1(x)asinh(x) acosh(x), arccosh(x), cosh^-1(x)acosh(x) atanh(x), arctanh(x), cosh^-1(x)acosh(x) atanh(x), arctanh(x), x), tanh^-1(x)atanh(x) acoth(x), arccoth(x), cot^-1(x)acoth(x) acosh(1/x)asech(x) asinh(1/x)acsch(x) asinh(1/x)acsch(x)

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