## How to Solve Equations with Variables on Both Sides?

- Use the distributive rule to remove any parenthesis.
- Add or subtract terms to get the variables on one side and the constants on the other.
- 3. Multiply or divide to isolate the variable

## Example:

$$5(x + 2) = 3x - 8$$
  
 $5x + 10 = 3x - 8$   
 $5x - 3x + 10 = 3x - 3x - 8$   
 $2x + 10 = -8$   
 $2x + 10 - 10 = -8 - 10$   
 $2x = -18$   
 $2x/2 = -18/2$   
 $x = -9$   
Check:  
 $5(-9 + 2) = 3(-9) - 8$   
 $-35 = -35$ 

# **Solving Linear Equations Variable On Each Side Edgenuity**

**Bernhard Kutzler** 

### **Solving Linear Equations Variable On Each Side Edgenuity:**

**Solving Linear Equations** Masroor Mohajerani,2020-08-28 This book provides students the concepts of linear equations and solving algebraic linear equations with one variable A step by step solution is provided for every example regarding one step two step and multi step linear equations This book is designed for grade 7 to 9 students and the variety of examples makes it a great source for students teachers and tutors Do the Math Suzanne Bower, 2012-11-19 Elementary Algebra writing solving graphing linear equations in two variables Linear Equations and Lines Leon J. Ablon, 1981 **Equations** P. M. Cohn, 2012-12-06 LINEAR equations play an important part not only in mathe matics itself but also in many fields in which mathematics is used Whether we deal with elastic deformations or electrical networks the flutter of aeroplane wings or the estimation of errors by the method of least squares at some stage in the cal culation we encounter a system of linear equations In each case the problem of solving the equations is the same and it is with the mathematical treatment of this question that this book is concerned By meeting the problem in its pure state the reader will gain an insight which it is hoped will help him when he comes to apply it to his field of work The actual process of setting up the equations and of interpreting the solution is one which more properly belongs to that field and in any case is a problem of a different nature altogether So we need not concern ourselves with it here and are able to concentrate on the mathematical aspect of the situation The most important tools for handling linear equations are vectors and matrices and their basic properties are developed in separate chapters. The method by which the nature of the solution is described is one which leads immediately to a solution in practical cases and it is a method frequently adopted when solving problems by mechanical or electronic **Systems of Linear Equations, Part 2**, Expand your tools for solving systems of linear equations by computers exploring the method of solving by elimination This technique allows you to eliminate one variable by performing addition subtraction or multiplication on both sides of an equation allowing a straightforward solution for the remaining variable

Applications of linear equations in one variable number problems age problems mixture problems money problems motion problems. Solving Linear Equations, Part 1, In this lesson work through simple one and two step linear equations learning how to isolate the variable by different operations Professor Sellers also presents a word problem involving a two step equation and gives tips for how to solve it. Linear Equations in One Variable Workbook Richard Hammond, 2021-05-12. This is a book in the problem series books. In this series we stay focus ed on learning fundamental mathematics through problems. Why do we care about this The reason is the best way to learn mathematics is to do mathematics. Hence learning through problems is what we should consider To be a part in mathematics development we try to create accessible sources for all readers. This book mainly focuses on linear equations in one variable. We always see this kind of equation It is the fundamental part of mathematics. Hence we must know what is it And how to solve it This book.

contains four parts Basics Linear Equations in One Variable Problems Solutions In Basics we restate some important properties that might be used to solve linear equations in one variable We start the next chapter Linear equations in one variable by introducing readers the definition of a linear equation in one variable and how to solve it The last two parts of the book are closely connected We list the many problems in equation in problem part After that we try to give full solutions to each problem in solution part Readers should try to solve the problems first before seeing the solutions This method of learning will help readers to master their basic faster We hope readers enjoy learning from this book Richard S Hammond

Solving Linear Equations with DERIVE Bernhard Kutzler,1998 The Multifaceted Variable Approach Salma
Tahir, Michael Cavanagh, 2010 This paper presents a comparison of the solution strategies used by two groups of Year 8
students as they solved linear equations The experimental group studied algebra following a multifaceted variable approach
while the comparison group used a traditional approach Students in the experimental group employed different solution
strategies namely balancing method working backwards and guess and check for solving different linear equations whereas
students in the comparison group tended to use a single procedural approach It is concluded that the multifaceted approach
developed students concepts not only of variables but also of equations Contains 4 tables and 1 figure For the complete
proceedings Shaping the Future of Mathematics Education Proceedings of the Annual Conference of the Mathematics
Education Research Group of Australasia 33rd Freemantle Western Australia Australia July 3 7 2010 see ED520764

Solving Linear Equations, Part 2, Investigating more complicated examples of linear equations learn that linear equations fall into three categories First the equation might have exactly one solution Second it might have no solutions at all Third it might be an identity which means every number is a solution Algebra, Parabola, and Trigonometric Equations Which Can Be Used on Sides of Right Triangles Colin Gardner, 2006-06-01 Provides new parameters for the quadratic equation such that two dozen or more trigonometric equations using these same parameters provide identical results Twenty two of these trigonometric equations have six different looking coefficients which make them all equal to one quadratic equation Each equation using these same parameters has three sets of new parameters which make them so they can be on sides of right triangles with six sets that will do this is included Each quadratic equation having an integer solution has also a Pythagorean equation which has identical answers Equations to this is provided One set of data is provided that makes this all possible with the three answers one for each side being provided Non integer solutions are also possible Each set of equations or integers on the sides of right triangles can be put into a parabolic form that is what you see on the two legs of a right triangle can be added together to obtain the correct equation or integer on its hypotenuse These three new quadratic dependent coefficients can be produced by four independent variables with criteria on how to use them is provided Conversion equation between the three and four types of new parameters is provided Equations to make many new parabolic equations is provided with one examplebeing provided A table of over a dozen different algebra equations

which have two or three different trigonometric equations which have equal answers is shown with angle criteria to ensure that this is true Six conventional sets of normal trigonometric equations which can easily be put on sides on right triangles is provided along with four sets containing sines and cosines on each triangle side but with different coefficients Two examples showing how to convert normal quadratic equation coefficients to the three new coefficients is provided along with answers A third quadratic equation is given only with answers Algebraic equation conversions to each quadratic equation is provided Next parameters which define five different data variations for each algebra and trigonometric is provided with one same answer for each making 15 different solutions Five different trigonometric equations using these same new quadratic coefficients are provided with all having the same identical answers as shown Next one set of trigonometric equations is shown on the sides of two different right triangles each with different coefficients What follows is a table of equation coefficients which can be expanded both in the horizontal as well as in the vertical direction to be as large as one desires based upon any two desired selected sets of data Equations to do this are provided A special computer program which is required to compute these and any future coefficients is provided This program has the capability to produce 3X3 tables of Pythagorean triples which meets a 2 b 2 c 2 criteria in both the horizontal as well as in the vertical direction A table of these is provided A set of equations is provided to convert 2nd order algebraic equations which are on the sides of a right triangle to parabolic quadratic and one having sines and cosines on each triangle side is provided One example of using sines and cosines on a right triangle side to convert ANY other set of equations or integers to become a new set of similar equations or integers is also provided with one example Solving Linear Equations Swaminathan Sankaran, Constructing and **Solving Linear Equations** Great Britain. Department for Education and Skills, 2004 **Solving linear equations** Peter Thomas, Leslie Fox, 197? Solving Systems of Linear Equations with DERIVE for WINDOWS Bernhard Kutzler, 1998

Linear equations Paul M. Cohn,1971 A Learning Trajectory for Intermediate Algebra Students Transitioning from Solving Linear Equations to Factorable Quadratic Equations Silvia Anel Madrid Jaramillo,2021 Research on learning quadratic equations reports students difficulties with procedural fluency and conceptual understanding of standard methods for solving such equations There is little research on how to support students mathematical development for factorable quadratic equations without using the concept of function and function notation I investigated how students may develop connections between essential concepts for solving factorable quadratic equations starting from their current conception of solving linear equations To achieve this I conducted a design research study Based on the pilot s data analysis I proposed key developmental understandings KDUs M A Simon s construct for students learning to solve factorable quadratic equations These KDUs informed the two subsequent iterative cycles through which I developed a hypothetical learning trajectory HLT for supporting students understanding of this topic In each cycle I prepared a HLT including goals mathematical tasks and hypotheses conducted individual task based interviews and used qualitative methods to analyze participants engagement

with and reasoning during the tasks I interviewed 12 university students enrolled in an intermediate algebra course The data analysis was based on comparing the anticipated and observed learning trajectories This study contributes a HLT and an explanatory framework for supporting students in developing a richer understanding of solving factorable quadratic equations I incorporated two perspectives of solutions to a linear or quadratic equation symbolically as numbers that satisfy an equation e g ax2 bx c 0 and graphically as the x coordinate s of the x intercept s of the corresponding graph e g y ax2 bx c The instructional tasks in this trajectory offer students opportunities for subtle but crucial conceptual transitions as they engage their prior knowledge of linear equations develop an intuitive understanding of why the method of factoring works understand how many solutions a linear or quadratic equation may have notice the algebraic structure of a factored equation and understand how the zero product property applies to solving factorable quadratic equations The data analysis shows that the proposed HLT is viable The account of how participants engaged with the tasks and interacted with the researcher illustrates how teachers may probe and guide students towards reflecting on their mathematical activity and understanding of this topic

Conceptual Development for Learning to Solve Linear Equations in One Variable Po-Son Dennis Tsao,1995

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