

ALGEBRAICALLY BY ELIMINATION Solve the equations x + y = 9 and x - y = 1 by elimination. To solve by elimination we add or subtract the equations to eliminate one of the variables. x + y = 9x - y = 1 ADD 2x = 10So *x* = 5 Substitute into either equation to find y. x + y = 95 + y = 9v = 4Solve the equations 5x + 2y = 9 and 2x + 3y = 8 by elimination. In this case a variable is not eliminated by adding or subtracting. We must first multiple the equations to give either the same number of x or y terms. 5x + 2y = 9 multiply by 3 15x + 6y = 272x + 3y = 8 multiply by 2 4x + 6y = 16 SUBTRACT 11*x* = 11 *x* = 1 Substitute into either equation to find y. 5x + 2y = 9 $5 \times 1 + 2y = 9$ 2y = 4y = 2Simultaneous Equations Practice http://www.bbc.co.uk/schools/gcsebitesize/maths/algebra/simultaneoushirev1.shtml **Revise Simultaneous Equations.** http://www.cimt.plymouth.ac.uk/projects/mepres/book9/bk9i5/bk9 5i5.html **Revise Simultaneous Equations.** http://www.supermathsworld.com/ Ask your teacher for the login details. Select ALGEBRA from the menu. Select SIMULTANEOUS EQUATIONS. Try on EASY, MEDIUM and HARD level.