INEQUALITIES







SIMULTANEOUS EQUATIONS



2y = 6

12 - 3 = 9

y = 3

Example Substitute x = 4 into an **Key Concepts** original equation: Simultaneous We need to make the y 3x + 2y = 18coefficients the same equations are when $(3 \times 4) + 2y = 18$ more than one 12 + 2y = 18equation are given, 3x + 2y = 18which involve more $3x - y = 9 \times 2$ than one variable. 3x + 2y = 18 6x - 2y = 18 + SSS - Same Sign SubtractDSA - Different Sign Add The variables have Check in the other equation: the same value in $(3 \times 4) - 3 = 9$ 9x = 36each equation. x = 4This is true therefore x = 4 and y = 3**Key Words** Solve each set of simultaneous equations: sparx Simultaneous 1) 3x + 2y = 362) 3x + 2y = 4Substitution 5x + 4y = 644x + 5y = 17U760, U757, Elimination Linear **U137**

 $\varsigma = \Lambda pup \ z - z \ (z$ $9 = \chi \ pup \ 8 = x \ (1 : SAEWSNA$