



Section 12.1 Systems of Equations

12.1.1] Definition: A system of equations is a finite collection of two or more equations, each containing one or more variables. If all equations are linear equations, the system is called a *linear system* of equations. Otherwise, the system is called a *nonlinear system* of equations.

Example 1: Linear Systems

a] $2x + y = 4$
 $x - y = -1$
 (2 × 2 system)

b] $x + 3y + z = 2$
 $2x - y + 2z = 4$
 $-x + 2y - 4z = -11$
 (3 × 3 system)

c] $5x + 2y = 7$
 $3x - y = 2$
 $x + 4y = 5$
 $2x - 3y = -1$
 (4 × 2 system)

d] $x_1 - x_2 + 3x_3 + 7x_4 - x_5 = 1$
 $2x_1 + x_2 - x_3 - 2x_4 + 3x_5 = 1$
 (2 × 5 system)

Example 2: Non-Linear Systems

a] $x^2 + y^2 = 4$
 $4x - y^2 = 4$

b] $xy = 1$
 $x + y = 2$

c] $e^x + y^{-2} = 0$
 $x + \ln y = 1$

d] $x - y = 1$
 $2x - \sin(y) = 0$

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Example 3: In each part, decide whether the given system of equations is linear or nonlinear

a] $3x - 2y = 4^3$ **b]** $y - \cos x = 1$ **c]** $2\pi + e^y = x$ **d]** $x + y + 10z = -3$ **e]** $5x - 2y = 10$
 $4x - y = \pi^2$ $x + y = 2$ $x + \ln y = 1$ $2x - y + z - 2w = 0$ $\frac{3}{x} - \frac{2}{y} = 5$

12.1.2] Solution of a System of Equations: A solution of a system of equations is a finite sequence of real numbers (*n-tuple*) containing the values of the variables that solve each equation in the system. To *solve* a system of equations means to find all solutions of the system.

Example 4: In each part, determine whether the given sequence solves the system of equations.

a] $2x + y = 4$ **a1) $x = 1, y = 2 \Rightarrow$** Verify: $2(1) + (2) = 4$ (true) and $(1) - (2) = -1$ (true)
 $x - y = -1$ Yes, the given sequence is a solution of the given system.
a2) $x = 2, y = 0 \Rightarrow$ Verify: $2(2) + (0) = 4$ (true) and $(2) - (0) = -1$ (false)
 No, the given sequence is not a solution of the given system.

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b] $x + 3y + z = 2$ **b1) $x = 3, y = -1, z = 2$**
 $2x - y + 2z = 4$
 $-x + 2y - 4z = -11$ **b2) $x = -1, y = 0, z = 3$**

c] $x_1 - x_2 + 3x_3 + 7x_4 - x_5 = 1$ **c1) $(5, -4, -2, -1, -5)$** NOTE: this is a *5-tuple*
 $2x_1 + x_2 - x_3 - 2x_4 + 3x_5 = -5$ **c2) $(2, 3, -1, 1, 2)$** NOTE: another *5-tuple*

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