



# Ch 1.1 Systems of Linear Equations (K)

**What does the term *linear equation* mean?**

An equation is where two mathematical expressions are defined as being equal.

A set of linear equations is called a **linear system**.

***Not linear equations:***

a.  $x^2 - 1 = 0$

*Quadratic equation, the power of  $x$  is 2*

b.  $x + y^4 + \sqrt{z} = 9$

*The power of  $y$  is 4, and  $z$  is  $1/2$*

c.  $\sin x - y + z = 3$

*Trigonometric function*

A system that has no solution is called **inconsistent**, whereas if it has at least one solution is called **consistent**.