Linear Equations

A linear equation is an equation in which the highest power of the variable is always 1. It is also known as a one-degree equation. The standard form of a linear equation in one variable is of the form $Ax + B = 0$. Here, x is a variable, A is a coefficient and B is constant.

The standard form of a linear equation in two variables is of the form $Ax + By = C$. Here, x and y are variables, A and B are coefficients and C is a constant.

Equations	Linear or Non-Linear
$y = 8x - 9$	Linear
$y = x^2 - 7$	Non-Linear, the power of the variable x is 2
$\sqrt{y} + x = 6$	Non-Linear, the power of the variable y is 1/2
$y + 3x - 1 = 0$	Linear
$y^2 - x = 9$	Non-Linear, the power of the variable y is 2