Linear

m = slope

$y = m \cdot x + b$

b

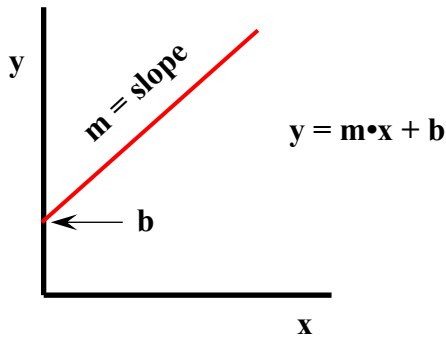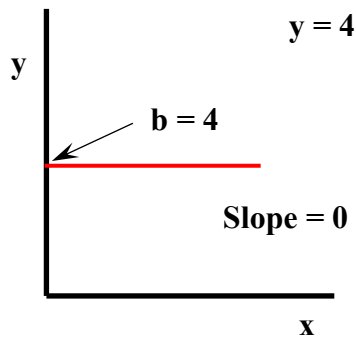| x	y
0	4
1	6
2	8
3	10
4	12
5	14

Linearly Related:
When x changes by a certain amount (1 unit), the value of y always changes by the same amount (e.g., 2 units).
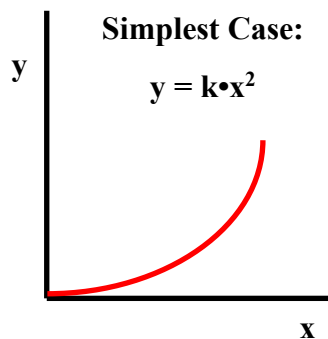
Non- or Constant Relationship

$y = 4$

$b = 4$

Slope = 0

x	y
0	4
1	4
2	4
3	4
4	4
5	4

Non-Relationship

Changes in the value of x have no effect upon the value of y

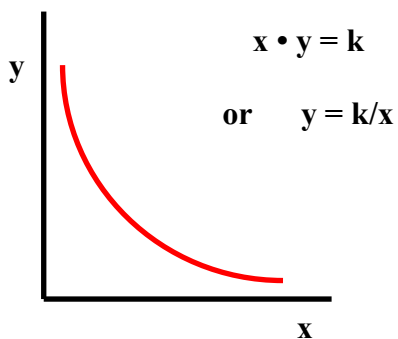The y value is a constant.

Quadratic

Simplest Case:

$y = k \cdot x^2$

x	y
0	0
1	2
2	8
3	18
4	32
5	50

Quadratic (Simplest Case)

Double x … Quadruple y

Triple x … Nine times y

Inverse

$x \cdot y = k$

or $\quad y = k/x$

x	y
1	12
2	6
3	4
4	3
5	2.4
6	2

Inverse

Double x … Halve y

Quadruple x … one-fourth y