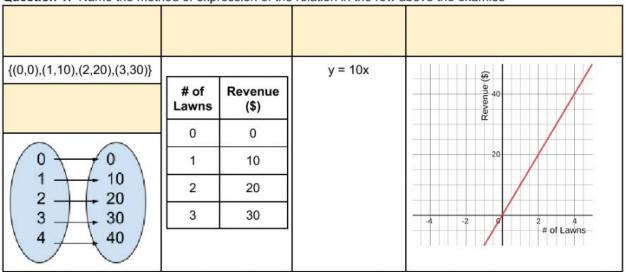
## What is a Relation? What is a Function?

A relation is a rule that associates an x-value with y-value(s)

Question 1: Name the method of expression of the relation in the row above the examles



A **function** is a special type of relation in which every independent value (x-value) has **only one** dependent value (y-value). In other words, a relation is a function when everytime we plug a value in for x we only get one y value

Question 2: Determine whether the following relations are functions:

{ (4,3),(4,6),(5,9),(5,12),(6,15)}
-40
-4 -2 0 2 4

Question 3: Determine whether each relation is a function or not?

Question 3: Determine whether each relation is a funct	ion or not?
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	-14 -16 -16 -18 -18 -10 12
-4 -2 0 2 4 C	4 6 8 10 12 d
y = 30x -10	{(-2,4),(-1,1),(0,0),(1,1)(2,4)}
20 -4 -2 0 2 4	$egin{array}{ c c c c c c c c c c c c c c c c c c c$