

TAKS Objective 1
TEK A.1B
Tutorial
(Grades 9, 10, and 11)

...use data sets to determine
functional relationships between
quantities.

Functions

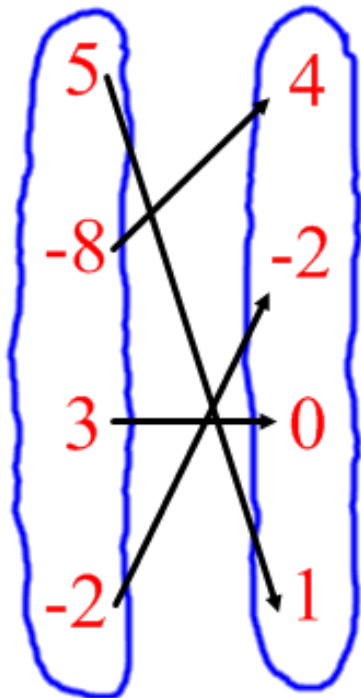
Given sets of ordered pairs, tables, or mappings, the x-coordinates cannot be repeated, unless to the same y-coordinate.

Examples of Functions

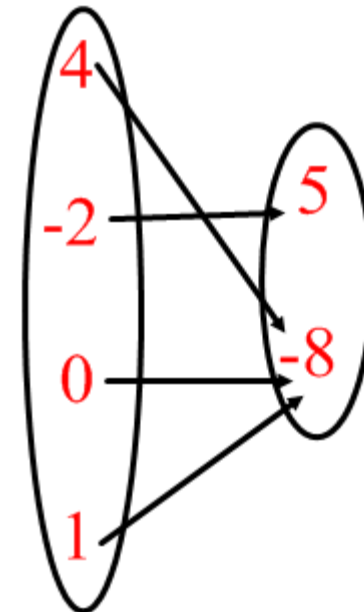
$\{(-5, 4), (7, -8), (-2, 9), (1, -10)\}$

$\{(1, 2), (-3, 8), (1, 2), (5, 6), (-8, 5)\}$

x	y
5	-2
3	-10
-4	11
5	-2



x	y
3	4
-2	-8
9	15
-7	-21

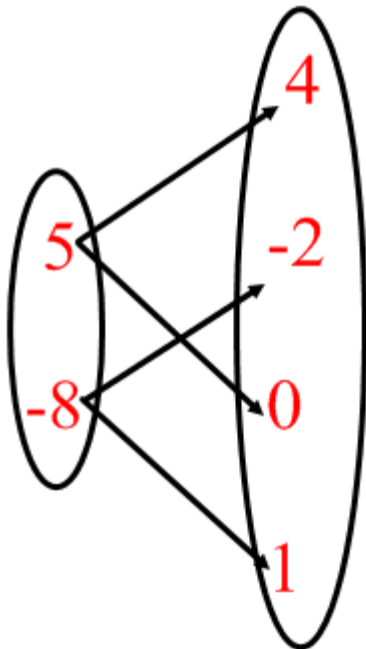


Non-examples of Functions

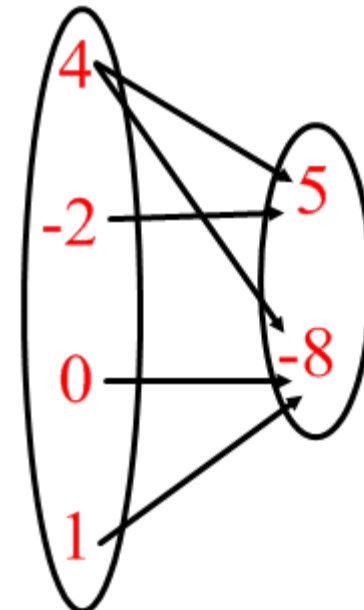
$\{(-5, 4), (7, -8), (-5, 9), (1, -10)\}$

$\{(-8, 2), (-8, 8), (-8, -1), (-8, 6), (-8, 5)\}$

x	y
5	-2
3	-10
-4	11
5	8



x	y
3	4
3	-8
3	15
-7	-21



To determine the equation for a functional relationship represented by a table:

First, assume the first column is the independent variable, or x .

Second, assume the second column is the dependent variable, or y .

Third, test the given answer choices using “ $y=$ ” and “2nd GRAPH (TABLE)”.

HINT

When looking at answer choices, try the choices that have the dependent variable (second column variable) = to an expression FIRST.