Problem of the Day: State the independent and dependent variable.

Brad is charged \$30 for each gigabyte of data used. Plan for the Day:

Collect signed tests and weekly homework

Notes on functions

More practice with functions

Objective: We will be able to determine if a relation

is a function.

Happy Birthday to Daniel Arce!!

Good luck to Football and Volleyball at Mexia!!

Function- special type of relation where each element of the domain is paired with exactly one element from the range.

In other words, each x can only have one y.

no Cheating X's

relation is a function since each x value should have only one y-value

Example 1: Determine if the following are functions.

a. {(2, 3), (3, 0), (5, 2), (-1, -2), (4,1)} (2,-4)

b. x y

b. x y

14 -1

5 2 Not a function—
6 5 Yand 5 are
6 5 Cheating X 5

Can use mapping, tables, and graphs to see if the

Vertical Line Test-VLT
-first you must graph the relation
-the Vertical Line Test says that the graph of a function should only touch vertical lines once
Example 2: Use the vertical line test to determine if the following are functions.

The function fails VLT

VLT

VLT

VLT

The first you must graph the relation
-the graph of a function
-the functio

Example 3: Is the mapping representing a function?

Not a function
2 is a chaoting

X

Example 4:

Tunction
No cheating

X 5



