REVIEW - Relations & Functions

representing relations through...

1) words 2) table 3) arrow diagram

4) coordinate pairs 5) graph 6) equation

desciribing the DOMAIN { x values } and RANGE { y values }

identifying a FUNCTION (each x value has one and only one y value)

* vertical line test... intersects more than one point - NOT a function

INDEPENDENT (x variable) versus DEPENDENT (y variable)

Function Notation... f(x) - same as the y variable (y is a function of x)

ex: f(x) = 3x + 1 a) f(-4) =

g(x) = -2x - 4 b) find x when f(x) = 32

c) find f(g(-2)) =

Interpreting graphs...'telling the story' and answering questions.

* must know how to read a distance/time graph

DISCRETE (counting/gaps... use dots) versus

CONTINUOUS (flows/no gaps...use lines/curves)

Graphing...building the axis, picking a scale, plotting points and graph!

Apr 14-9:53 AM

ex: f(x) = 3x + 1
g(x) = -2x - 4

a) f(-4) =
b) find x when f(x) = 32
c) find f(g(-2)) =

a) $f(-4) = 3(-4)+1$
$= -12+1$
$= -11$

b) $32 = 3x+1$
$3x+1 = 32$
$3x = 32-1$
$3x = 31$
$x = \frac{31}{3}$

c) $g(-2) = -2(-2)-4$
$= 4-4$
$= 0$
$f(0) = 3(0)+1$
$= 0+1$
$= 1$

Nov 4-12:04 PM

REVIEW QUESTIONS...

* READ the study guide on p. 324 - 325
* PRACTICE from p. 326: #1 - 12
* PRACTICE TEST:

  All questions except 5e & 5f

Apr 14-9:59 AM