

13 Multiple choice

* Given sets or ordered pairs determine which are function and non-functions. *(IF x is repeated the Non-function)*

* Given Table of Values, which is the independent variable or dependent variable. Which table of values represents a linear equation. *Check Rate of change = $\frac{\Delta y}{\Delta x}$ → if same decimal* *the all way down in linear*

* Read off graph. What does a certain segment mean?

* Function or Non-function and Domain/Range when given a picture of a graph. Where is the x and y-intercepts? *graph crosses y-axis*

* Given ordered pairs or word problem, find the rate of change *graph crosses x-axis*

5 Short Response

1) Given 2 functions (Evaluate or solve)

2) Same as Nov. 21 Warm up on Table of values and rate of change (PROVE)

3) Given a linear graph find the rate of change and x,y-intercepts *pick 2 dots Rate = $\frac{\Delta y}{\Delta x} = \frac{\text{rise}}{\text{run}}$* *Read off graph*

4) Given an equation a) Write the function notation, b) Evaluate when given an x value c) Solve when given a C(x) value

5) Given 2 equation solve for x (LET y=0 and solve) and y intercepts (Let x=0 and solve)

x intercept
 let $y=0$
 $y = 2x + 10$
 $0 = 2x + 10$
Rearrange
 $0 - 10 = 2x + 10 - 10$
 $-10 = \frac{2x}{2}$
 $-5 = x$

y intercept
 let $x=0$
 $y = 2x + 10$
 $y = 2(0) + 10$
 $y = 0 + 10$
 $y = 10$

Ex. $f(x) = 3x^2 + 5$ $h(x) = 2x + 3$
 a) $f(4)$
 Input 4 into f(x)
 $3(4)^2 + 5$
 $3(16) + 5$
 $48 + 5$
 53
 b) $h(x) = 13$
 Given y solve
 $h(x) = 2x + 3$
 $13 = 2x + 3$
Rearrange

the all way down in linear

always x

vertical line test

$\{x | -5 \leq x \leq -1\}$

graph crosses y-axis

graph crosses x-axis

Ex.

b)

Given y solve

Rearrange

Read off graph

pick 2 dots Rate = $\frac{\Delta y}{\Delta x} = \frac{\text{rise}}{\text{run}}$

$y = 2x + 10$

$0 = 2x + 10$

Rearrange

$0 - 10 = 2x + 10 - 10$

$-10 = \frac{2x}{2}$

$-5 = x$

$y = 2x + 10$

$y = 2(0) + 10$

$y = 0 + 10$

$y = 10$