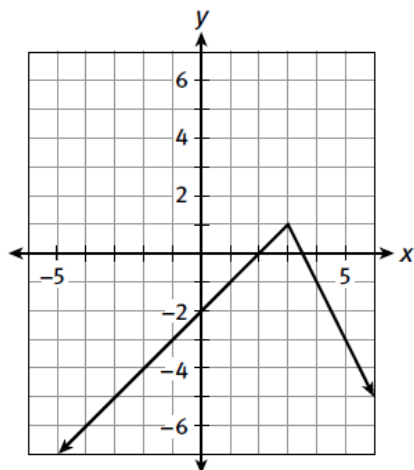Warm Up: Alg 2   10/17

What do you notice?

What are you wondering?

Feb 27-7:39 AM

W.A.L.T.:

Evaluate piece-wise functions.

W.A.S.I:

We can understand how to read a piece-wise function equation and apply our understanding of domain to evaluate an input.

Mar 7-9:45 AM

Notes!!! Piece-Wise Function

A <u>piecewise-defined</u> function is a function that is defined using different rules for the different nonoverlapping intervals of its domain.

Please translate that into English

Dec 31-10:01 PM

Notes!!! Piece-Wise Function

$$g(x) = \begin{cases} -2x - 2 & \text{if } x < -1 \\ x + 3 & \text{if } x \geq -1 \end{cases}$$

Dec 31-10:01 PM

Notes!!! Piece-Wise Function

Name of function

Single Brace

Domain Restriction

$$f(x) = \begin{cases} x^2 - 3 & \text{if } x \leq 0 \\ \frac{1}{4}x + 1 & \text{if } x > 0 \end{cases}$$

Function Rules

Dec 31-10:01 PM

In Class Work:

$$f(x) = \begin{cases} 3x - 5, & x > 4 \\ x^2, & x \leq 4 \end{cases}$$

1. f(7)

2. f(4)

3. f(-3)

Mar 7-1:33 PM

3

<u>Today's Activities:</u>
  - Intro to piecewise functions

<u>P.W. for tonight:</u>
  - Worksheet: Piecewise Functions

Dec 31-9:59 PM