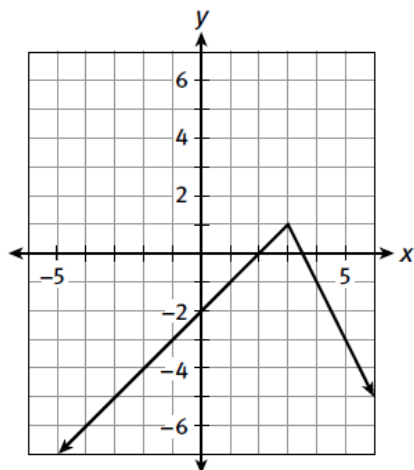


## Warm Up: Alg 2

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 piecewise-defined 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

The diagram shows a piecewise function  $f(x)$  with three callout boxes: "Name of function" pointing to  $f(x)$ , "Single Brace" pointing to the curly braces, and "Domain Restriction" pointing to the inequalities  $x \leq 0$  and  $x > 0$ . A fourth callout box, "Function Rules", points to the expressions  $x^2 - 3$  and  $\frac{1}{4}x + 1$ .

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

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

Today's Activities:

- Intro to piecewise functions

P.W. for tonight:

- Worksheet: Piecewise Functions

Dec 31-9:59 PM