

Today starts bellwork, log into Canvas. Bellwork is under quizzes.

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Chapter 1 Functions and Graphs

Sec 1.2 Functions and their Properties day 1

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Aug 20-7:06 AM

Aug 24-7:52 AM

Pre-Calculus Sec 1.2 Functions and their Properties

Functions - For every x there is only one y . (No 2 x 's are the same).

Domain - set of x 's $\{2, 4, -3\}$ ex. $\{(2, 3), (4, 5), (-3, 7), (2, 1)\}$

Range - set of y 's $\{3, 5, 7, 1\}$ not a function b/c there are 2 x 's that are the same.

Function notation $y = f(x)$

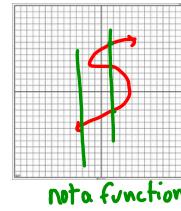
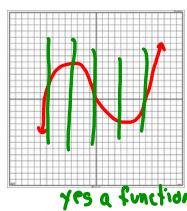
independent variable x
dependent variable y

$$\begin{array}{c|c} \text{input} & x \\ \text{output} & y \\ \hline & \end{array}$$

| | |
|----|---|
| -2 | 7 |
| -1 | 4 |
| 0 | 3 |
| 1 | 4 |
| 2 | 7 |

$$y = x^2 + 3$$

Graphs of Functions - Vertical Line Test
Can only touch the graph in one point, for the graph to be a function.



do the following: page 102 1 - 7 odd

Aug 11-5:58 PM

Aug 11-6:12 PM

Pre-Calculus Sec 1.2 Functions and their Properties day 2

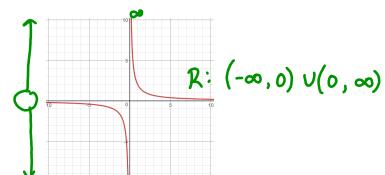
How to find the **domain** of a function using the graph:

$y = 3x - 2$ D: $(-\infty, \infty)$

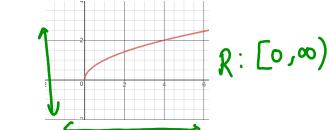
$y = \sqrt{3x - 6}$ D: $[2, \infty)$

Finding the Range

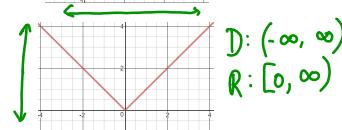
ex. $f(x) = \frac{2}{x}$



ex. $y = \sqrt{x}$

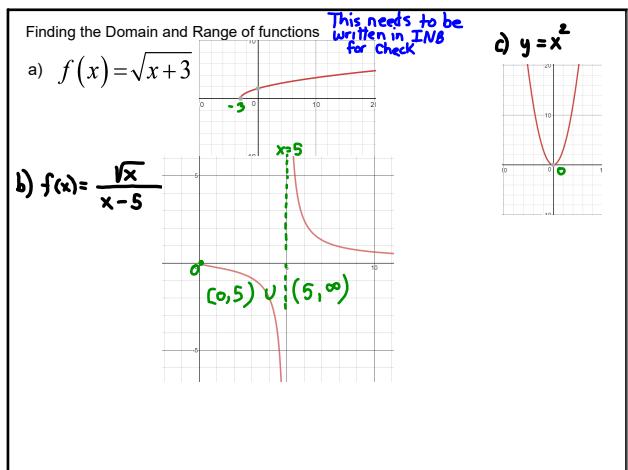


ex. $y = |x|$



Aug 25-9:27 AM

Aug 21-11:59 AM



Aug 11-6:18 PM