## Lesson 6

Jan 30-4:12 PM

## connect

## NOTES:

We can represent the function that associates every whole number with its double in several ways

$$
\{0 \leq x \leq 4\}
$$

d) What is the domain?

$$
\{0,1,2,3,4\}
$$

e) What is the range?


$$
\begin{aligned}
& \{0,2,4,6,8\} \\
& \{0 \leq y \leq 8\}
\end{aligned}
$$

| connect | NOTES: |
| :--- | :--- |
| We can represent the | Table of Values |
| function that associates every | Whole Number, $x$ |
| whole number with its double |  |
| in several ways | D the Number, $y$ |
|  | 1 |

$$
\frac{\Delta y}{\Delta x}=\frac{2}{r}=2=m
$$

b) What is the constant?

b) What is the equation of the line?


Jan 30-4:17 PM


The range of a function is the set of values of the dependent variable; for the graph, the domain is the $y$-values.


Connect

## NOTES:

A function has ordered pairs with different first coordinates.. So, when the ordered pairs of the function are plotted on a grid, any vertical line can be drawn will always pass through no more than one point


IS A FUNCTION because only one dot (ordered pair) for each $x$-value


Jan 30-4:17 PM

Practice
Identify whether a Graph represents a function
Which of these graphs represents a function?


Determining the Domain and Range of the Graph of a function Determine the domain and range of the graph of each function?


Domain $=\{x \leq 3\}$

Range $=\{y \geq-1\}$

Determining the Domain and Range of the Graph of a function Determine the domain and range of the graph of each function?


Domain $=\{-2 \leq x \leq 2\}$

Range $=\{0 \leq y \leq 2\}$

Jan 30-4:17 PM

## Practice

YOU TRY!
Determining the Domain and Range of the Graph of a function Determine the domain and range of the graph of each function?


Domain $=\{x \leq 5\}$

Range $=\{y \leq z\}$

Jan 30-4:17 PM

Determining the Domain and Range of the Graph of a function Determine the domain and range of the graph of each function?


Domain $=\{-3 \leq x \leq 5\}$

$$
\text { Range }=\{3 \leq y \leq 7\}
$$

Textbook Questions:
Page 294 \# 4, 5, 6, 7, 8, 9

Jan 30-4:17 PM

