

January 21, 2015

$$A = \{x \in \mathbb{N} \mid x > 10\}$$

$$B = \{x \in \mathbb{N} \mid x \geq 10\}$$

$$C = \{x \in \mathbb{Z} \mid x \leq 2\}$$

$$D = \{x \in \mathbb{Z} \mid x > -3\}$$

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1. 3. 5

$$A \cap B = \{x \mid x > 10 \text{ \textcircled{=} } x \geq 10\}$$

1. 3. 6

$$A \cup B = \{x \mid x > 10 \text{ \textcircled{=} } x \geq 10\}$$

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2.1 Functions

* Relation

- ordered pair (a, b)
- * Note: an ordered pair is not intrinsic relation!
- $(2, \epsilon), (4, \epsilon), (5, \phi)$
- $\{2, 4, 5\}$
 - 1st entry of the ordered pair
 - Abscissa of the relation
- $\{\epsilon, \phi, \phi\}$
 - 2nd entry
 - ordinate of the relation

mapping
abscissa to ordinate

$$\begin{array}{l} 2 \rightarrow \epsilon \\ 4 \rightarrow \epsilon \\ 5 \rightarrow \phi \end{array}$$

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ordered pairs

$$(a, b) \rightarrow (\text{abscissa}, \text{ordinate})$$

$$\rightarrow (x, y)$$

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Coordinate System

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Functions are specific from of a Relation

$$(0, 2), (4, 5), (0, 3)$$

$$\text{abscissa} = x_{\Delta} = \{0, 4\}$$

$$\text{ordinate} = y_{\Delta} = \{2, 5, 3\}$$

mapping

an Issue!
* Not a function

a function must map an x to a specific y

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For Friday
* Quiz #2 1.1 & 1.3
* head 2.1 COR

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