

October 12, 2016
 . Withdrawal Date
 Friday 11:59pm

Oct 12-9:49 AM

• Relation: a collection of ordered pairs
 $B = \{(-7, 15), (2, 12), (-1, 18)\}$
 • Domain: is the set of 1st objects (elements) from the collection of ordered pairs.
 $D: \{-7, 2, -1\}$
 • Range: is the set of 2nd objects from the ordered pairs.
 $R: \{15, 12, 18\}$

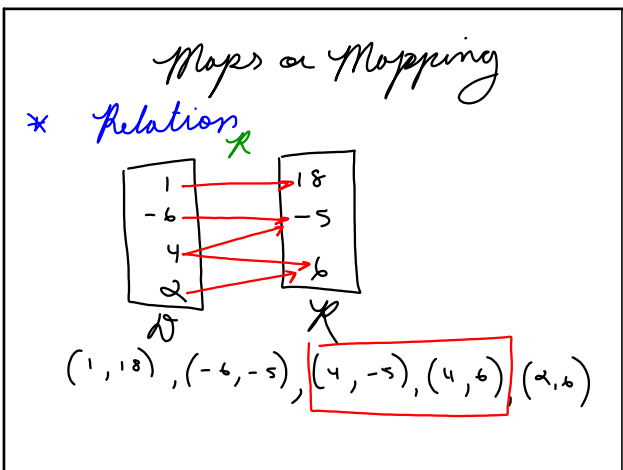
Oct 12-10:08 AM

• Function: A relation is a function if and only if (iff) each object (element) in the domain is paired with exactly one object in the range.

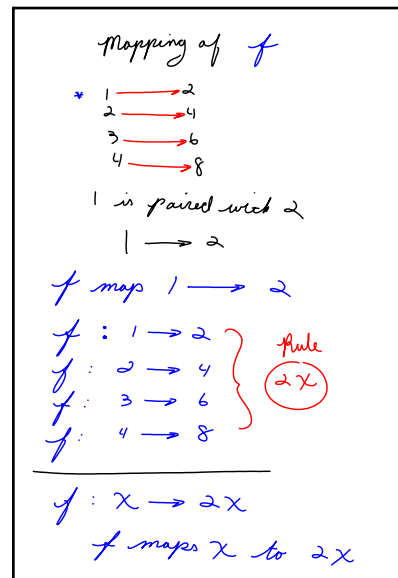
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Input f Output
 -5 $3x+5$ -10
 0 $(-5, -10)$ 5
 $(0, 5)$

Oct 12-10:25 AM



Oct 12-10:31 AM



Oct 12-10:38 AM

$$f: x \rightarrow 2x + 3$$

↑ Input

where does f send
(map) 8 to?

$$\begin{aligned} f: (8) &\rightarrow 2(8) + 3 \\ &\rightarrow 16 + 3 \\ &\rightarrow 19 \end{aligned}$$

Oct 12-10:46 AM