

September 22, 2015  
 \* Exam #1 - Friday  
 Thinking Exam!  
 0989 → 0999/1111  
 4 hrs → 6 hrs  
 3 attempts  
 $\frac{3}{1}$  Prep. hours  
 Class hours

Sep 22-9:01 AM

Functions  
 \* Relation: Is a set of ordered Pairs  
 $(a, b)$   
 $(x, y)$   
 $(-2, b)$   
 $(Months, Sales)$   
 $(Atlanta, GA)$

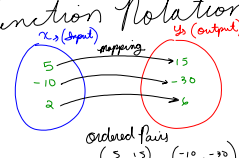
Sep 22-9:14 AM

Functions: Is a relation where the first element of the ordered pair is matched with exactly one element of the 2nd pair.

Sep 22-9:21 AM

Machine  $f$   
 Rule: Software  
 $3x$   
Input  
 5  
 -10  
 ① Horizontal Position  
 ②  $x$   
 ③ Independent Variable  
 ④ Domain  
output  
 15  
 -30  
 ① Vertical Position  
 ②  $y = f(x)$   
 ( $f$  of  $x$ )  
 ③ Dependent Variable  
 ④ Range

Sep 22-9:24 AM

Function Notation  
  
 Notation:  
 ①  $f : 5 \rightarrow 15$   
 (Labels:  $f$  - name of function,  $:$  - maps,  $5$  - input,  $\rightarrow$  - to,  $15$  - output)  
 ②  $f(x) = 3x$   
 ( $f$  of  $x$ ), Rule  
 $f(5) = 3(5) = 15$   
 Read CORE 5.1

Sep 22-9:41 AM