

March 6, 2017  
 \* Last Day to Withdraw  
 5:30 pm

Mar 6-9:01 AM

3.4 #13

②  $m = \frac{(-4) - (4)}{(3) - (-3)}$   
 $= \frac{-8}{6} = -\frac{4}{3}$

③  $y = mx + b$   
 $-4 = -\frac{4}{3}(3) + b$   
 $-4 = -4 + b$   
 $0 = b$

④ Check  $(-3, 4)$   
 $4 = -\frac{4}{3}(-3) + 0$   
 $4 = 4 \checkmark$

$y = -\frac{4}{3}x + 0$

Mar 6-9:05 AM

#10  $(0, 1)$ ;  $m = -\frac{7}{5}$

③  $y = mx + b$   
 $1 = -\frac{7}{5}(0) + b$   
 $1 = b$

$(0+5, 1-7) = (5, -6)$

$-6 = -\frac{7}{5}(5) + 1$   
 $-6 = -7 + 1$   
 $-6 = -6 \checkmark$

$y = -\frac{7}{5}x + 1$

Mar 6-9:12 AM

Junctions

Recall Sets: a collection of things

① Relation: a collection of ordered pairs.  
 $(-5, 2)$ , (Fast, Sunday)  
 $(John, Key)$ , (Months, Sales)

② Domain: is the set of 1st elements of a set of ordered pairs.  
 $A = \{(-5, 2), (2, -2), (10, -2)\}$   
 Domain:  $\{5, 2, 10\}$

③ Range: is the set of second elements of a set of ordered pairs.  
 Range:  $\{-2, -5, 3\}$

Mar 6-9:17 AM

a Junction: is a Relation in which the first elements are paired with exactly one second element.

Mar 6-9:27 AM

D                  R

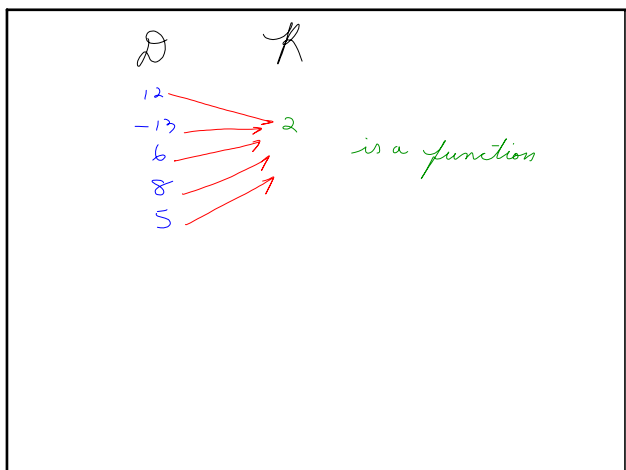
4 → 5  
 -3 → 2

$\boxed{6 \rightarrow -3}$   
 $\boxed{11 \rightarrow -3}$  ?

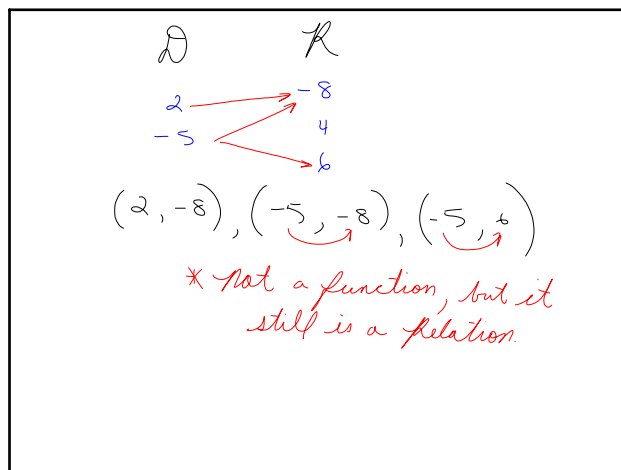
$(4, 5)$ ,  $(-3, 2)$ ,  $(6, -3)$ ,  $(11, -3)$

Is this a function? yes

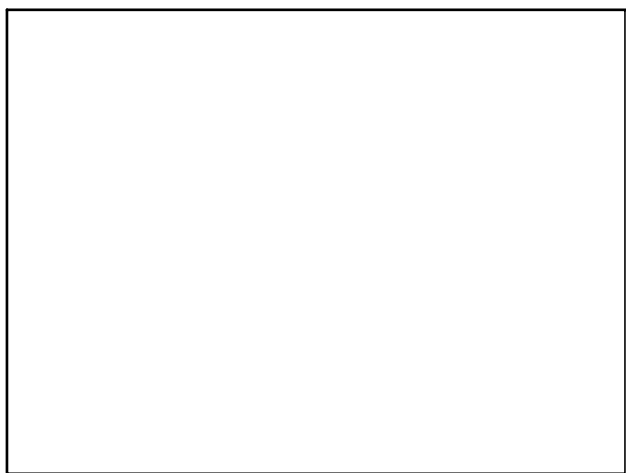
Mar 6-9:31 AM



Mar 6-9:36 AM



Mar 6-9:37 AM



Mar 6-9:42 AM