

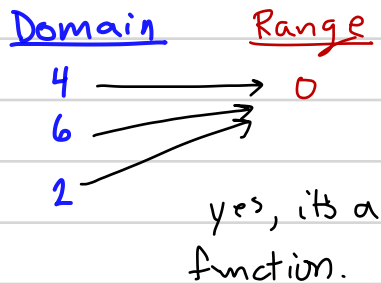
## 12/3/12 Relations and Functions

Find the Domain and Range. Is it a function?

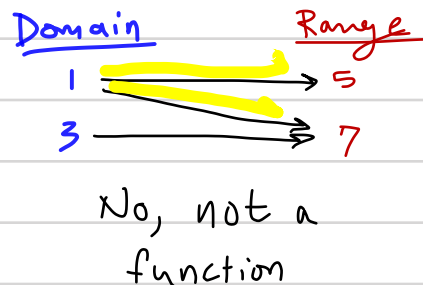
**Example**

Only write  
Repeats once

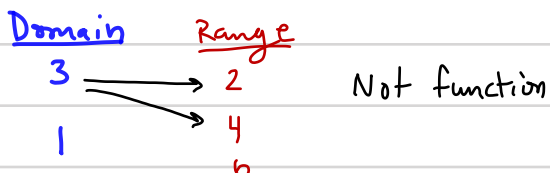
①  $\{(4,0), (6,0), (2,0)\}$



②  $\{(1,5), (3,7), (1,7)\}$



③  $\{(3,2), (3,4), (1,6)\}$



Find the outputs for the given input.

④  $f(x) = x + 2$ ,  $f(8)$ ,  $f(0)$ ,  $f(1)$

$f(8) = 8 + 2 = 10$

$f(0) = 0 + 2 = 2$

$f(1) = 1 + 2 = 3$

$f(8) = 10$
$f(0) = 2$
$f(1) = 3$

⑤  $h(x) = 2x^2 + 5$ ,  $h(-2)$ ,  $h(0)$ ,  $h(3)$

$h(-2) = 2(-2)^2 + 5$   
 $= 2(4) + 5$   
 $= 8 + 5 = 13$

$h(0) = 2(0)^2 + 5$   
 $= 2(0) + 5$   
 $= 0 + 5 = 5$

$h(3) = 2(3)^2 + 5$   
 $= 2(9) + 5$   
 $= 18 + 5 = 23$

$h(-2) = 13$
$h(0) = 5$
$h(3) = 23$