

①

Solution

# Relation, function, 1-1 function

Monday, if sunny, eggs. || not relation  
Monday, if rainy, salmon. ||

In out || not relation  
 $\begin{pmatrix} 1, 5 \\ 8, 7 \\ 1 \end{pmatrix}$   $\begin{pmatrix} 2, 3 \\ -2, 6 \end{pmatrix}$

In/out



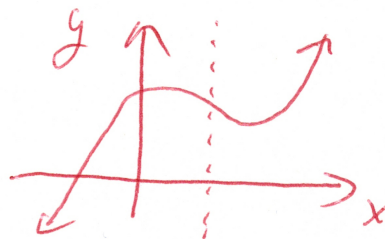
$$y = 3x^2 + 7$$

: Relation

function: For each input, only ONE output.

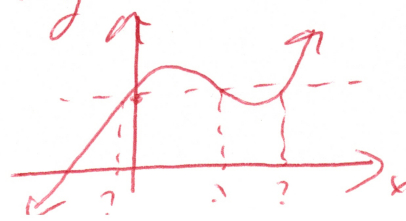


vertical line test

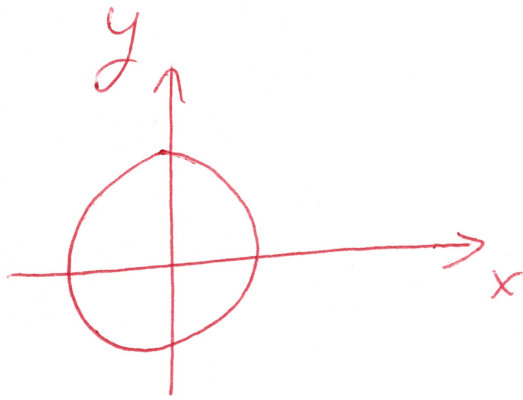


1-1 function: Function, AND each output came just from one input.

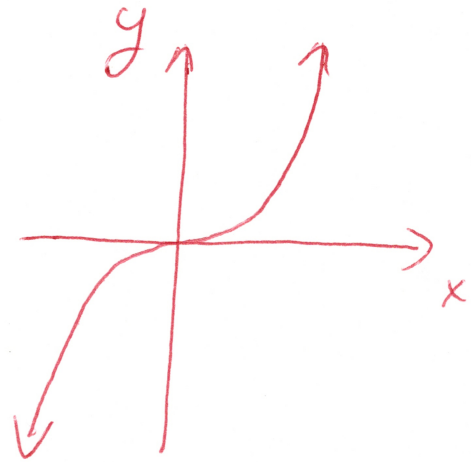
Horizontal line test



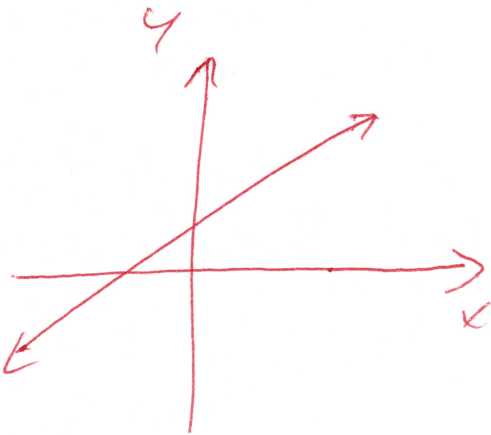
② Examples



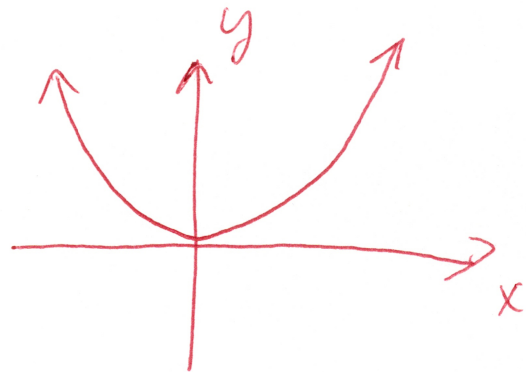
Relation



Function



1-1 function



function



relation