Max and Ang Max notation 9/20/23 books on 9/19 lecture

Max f(x): the highest value of f(x) over all xEC f(x): x from set C.

= Max \{ f(x) | x \( \) C}

Mymax f(x); the  $x^{\kappa} \in C$  that maximizes f(x).

For classification production, set C is a finite discrete

Directle 
$$y \in C$$
  
 $C = \{\{\{\}\}\}\}$   $N \in G\}$   
Say  $f(y) = \{\{\}\}\}$   $f(y) = \{\{\}\}\}$   $f(y) = \{\{\}\}\}$   $f(y) = \{\{\}\}\}$   $f(y) = \{\}\}$   $f(y) = \{\}$   $f(y)$ 

Then:

$$MAX$$
 $y \in \text{Pos}, NEG3$ 
 $f(y) = -3.2$ 
 $AV9 MAX$ 
 $y \in \text{Pos}, NEG3$ 
 $f(y) = POS$ 
 $y \in \text{Pos}, NEG3$