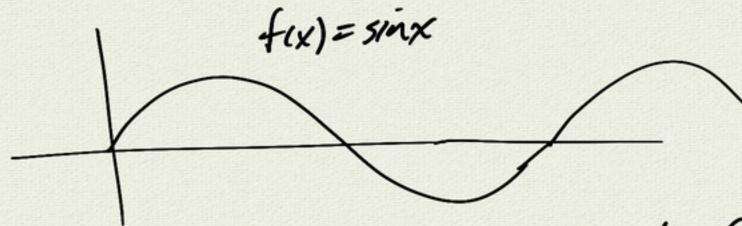
## 4.1 Function Properties

domain /range



domain: 12

range: [-1,1]

domain = Where the function is defined

range = set of all possible function values

local (relative)

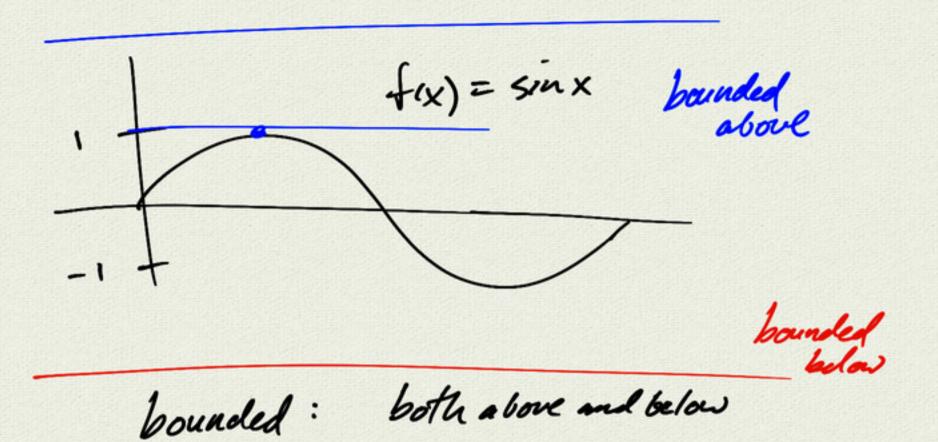
decreasing

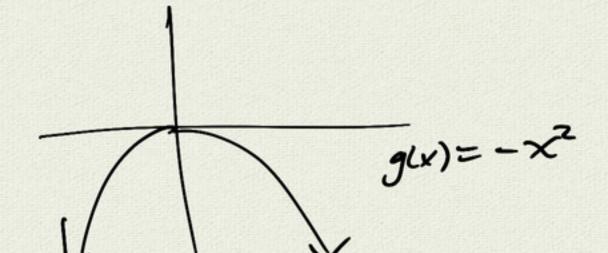
local

local

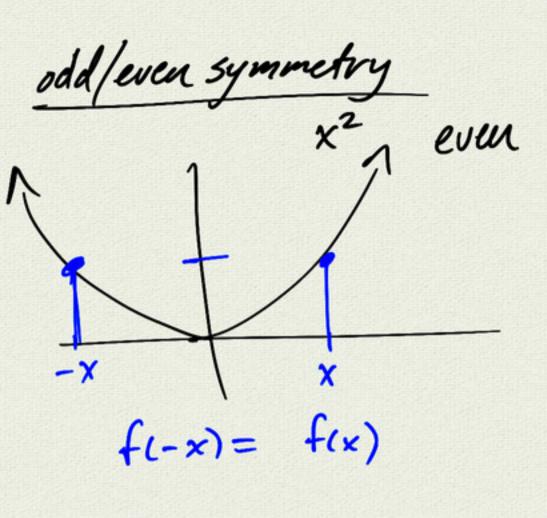
local

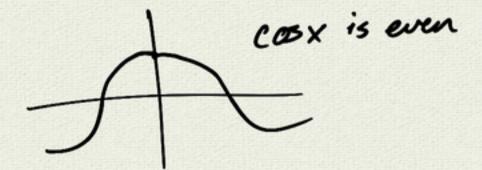
local

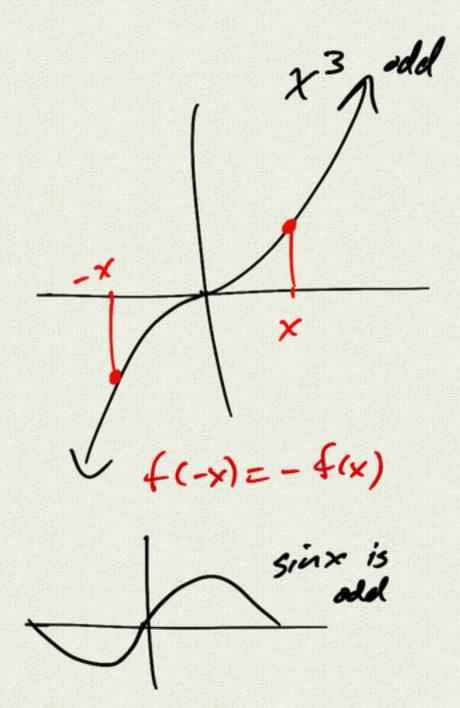


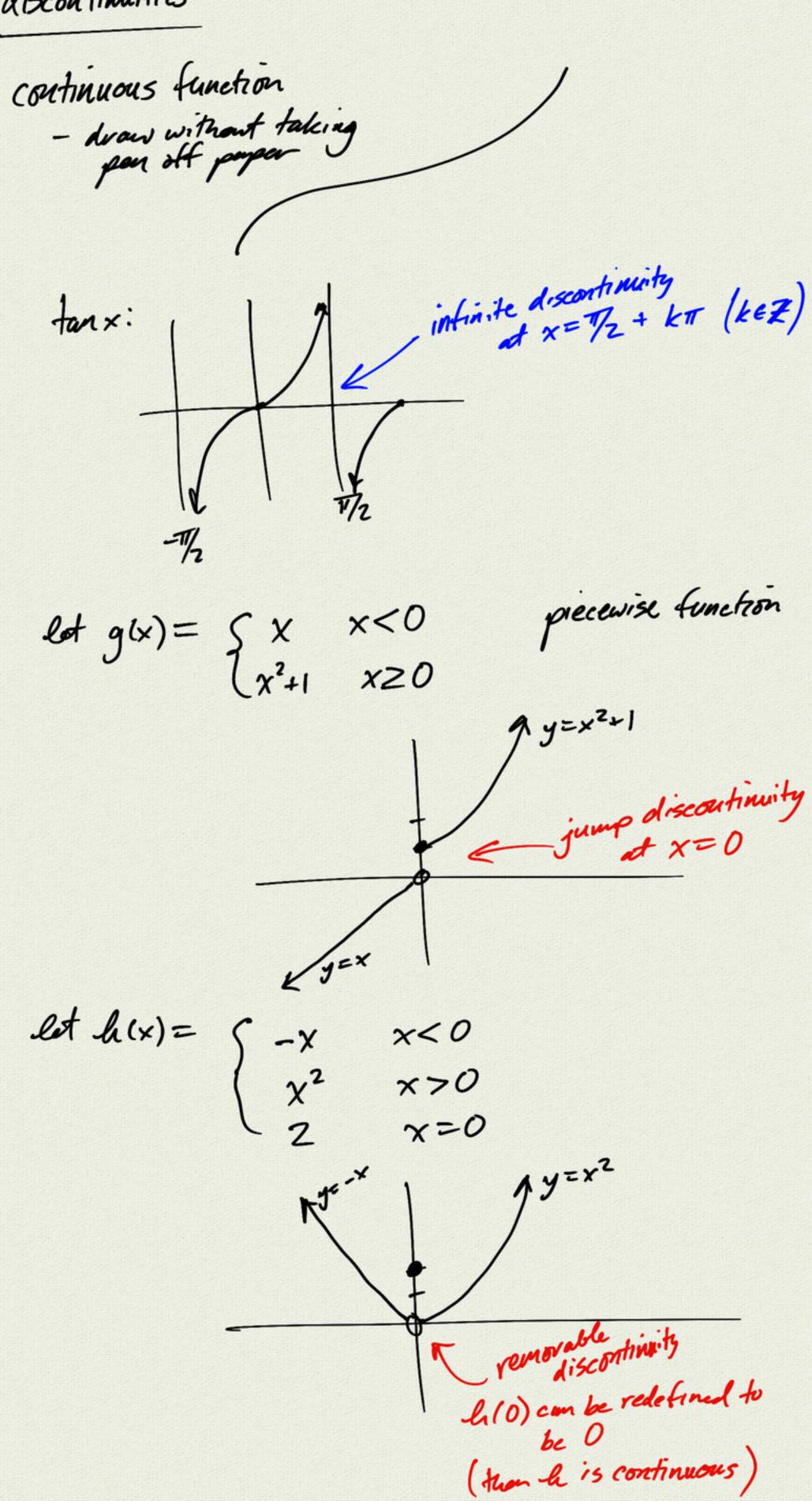


but not below (no lower bound)









int(x) greatest integer function

(the bigsest integer 
$$\leq x$$
)

int(0) = 0

int(.1) = 0

int(.5) = 0

int(.9) = 0

int(.1) = 1

jump discontinuity at  $x = k$  ( $k \in \mathbb{Z}$ )

domain =  $\mathbb{R}$ 

range =  $\mathbb{Z}$ 

