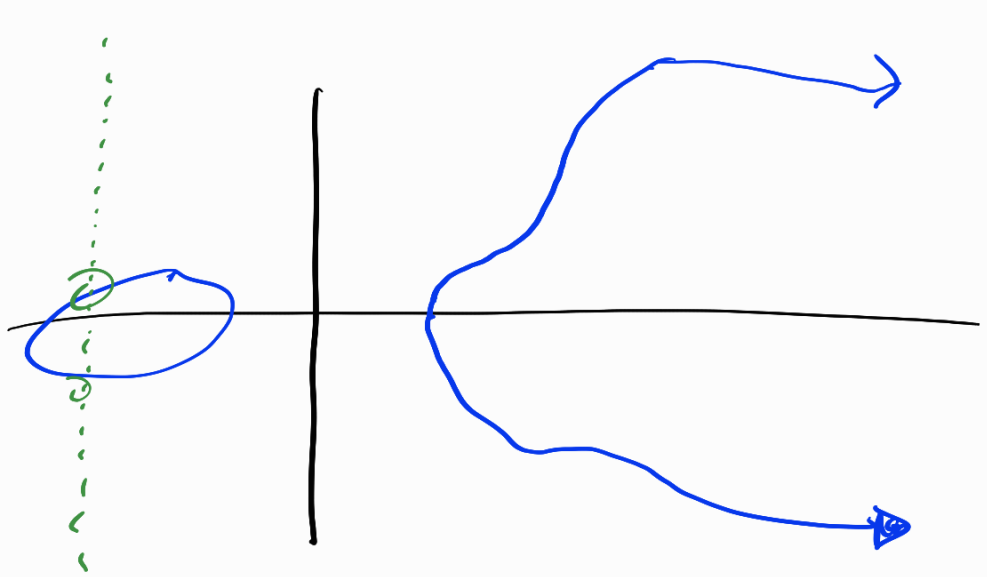
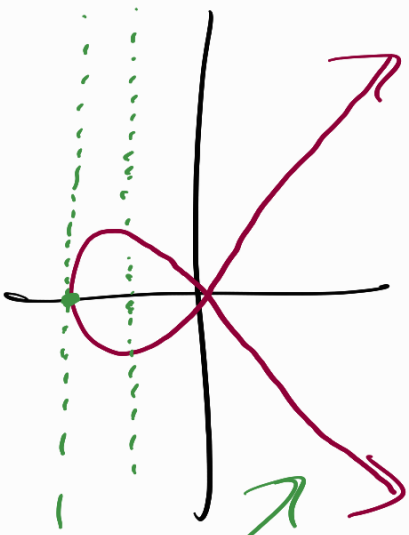
Function graph:

one-variable (usually x)

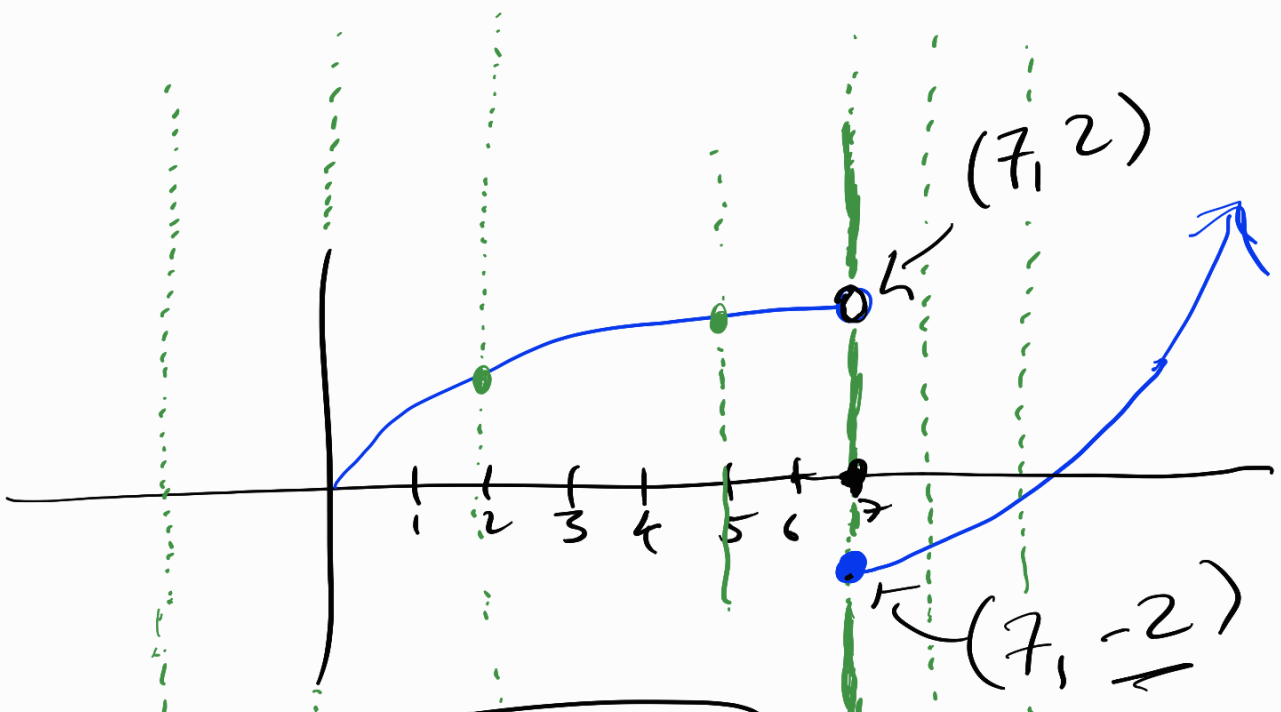


not a function!



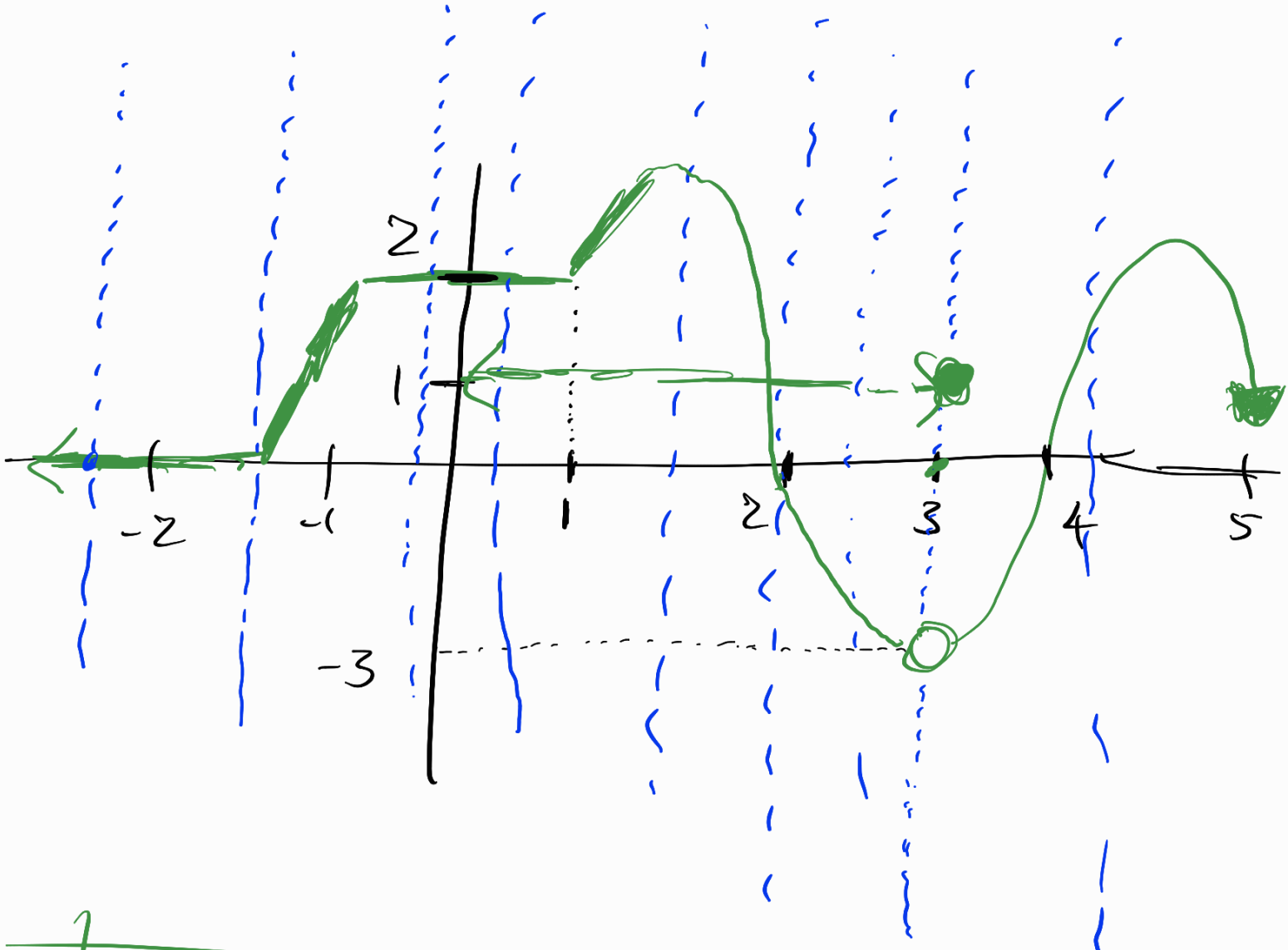
not a function!!

elliptic curves



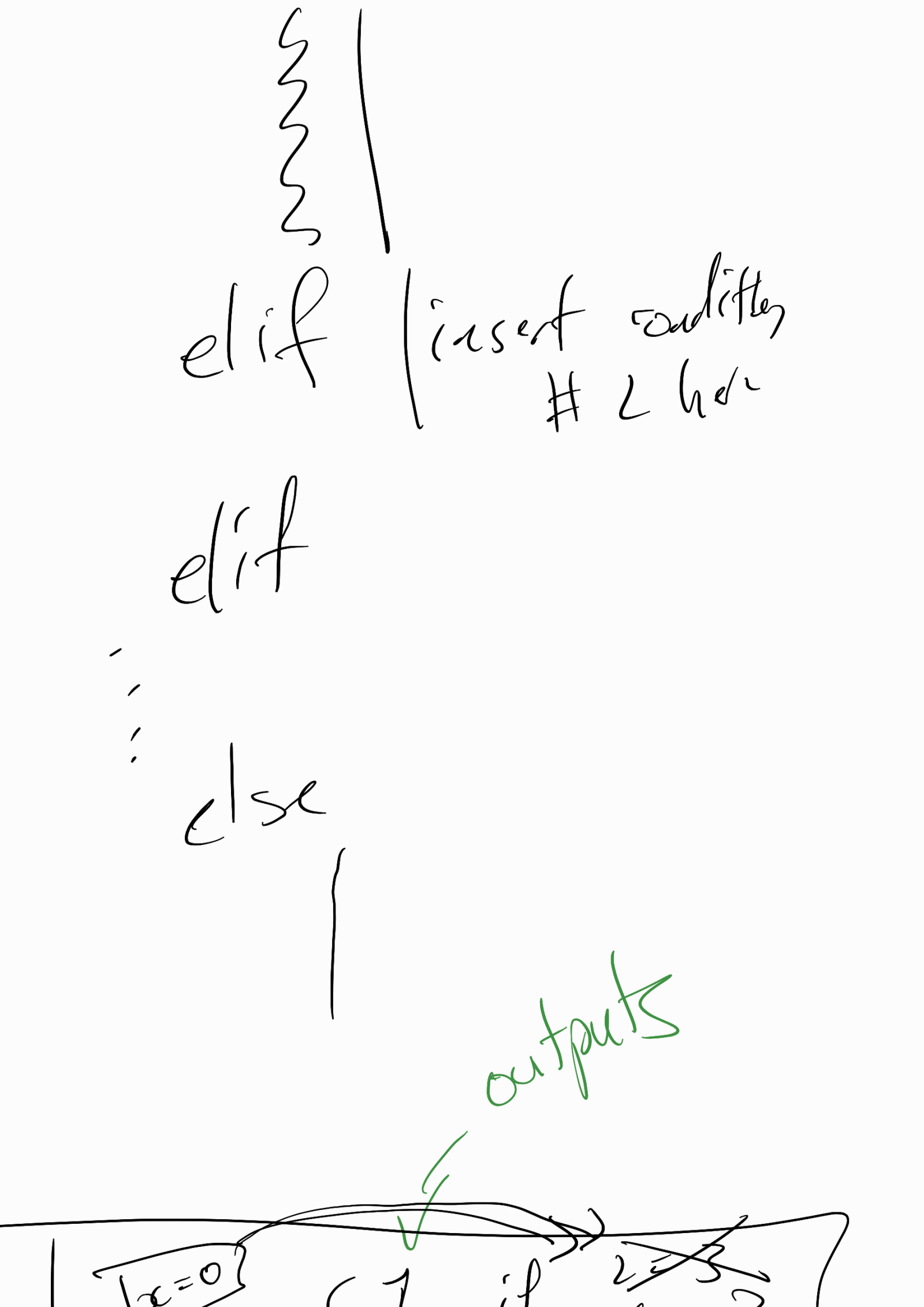
$f(7) = -2$

filled in hole



$f(3) = +1$

if 'insert condition here' T/F


elif
insert conditions
# 2 here
elif
:
else
outputs
x=0

$f(x) =$ { 1 if $x = 5$; 0 else }

$f(5) = 1$

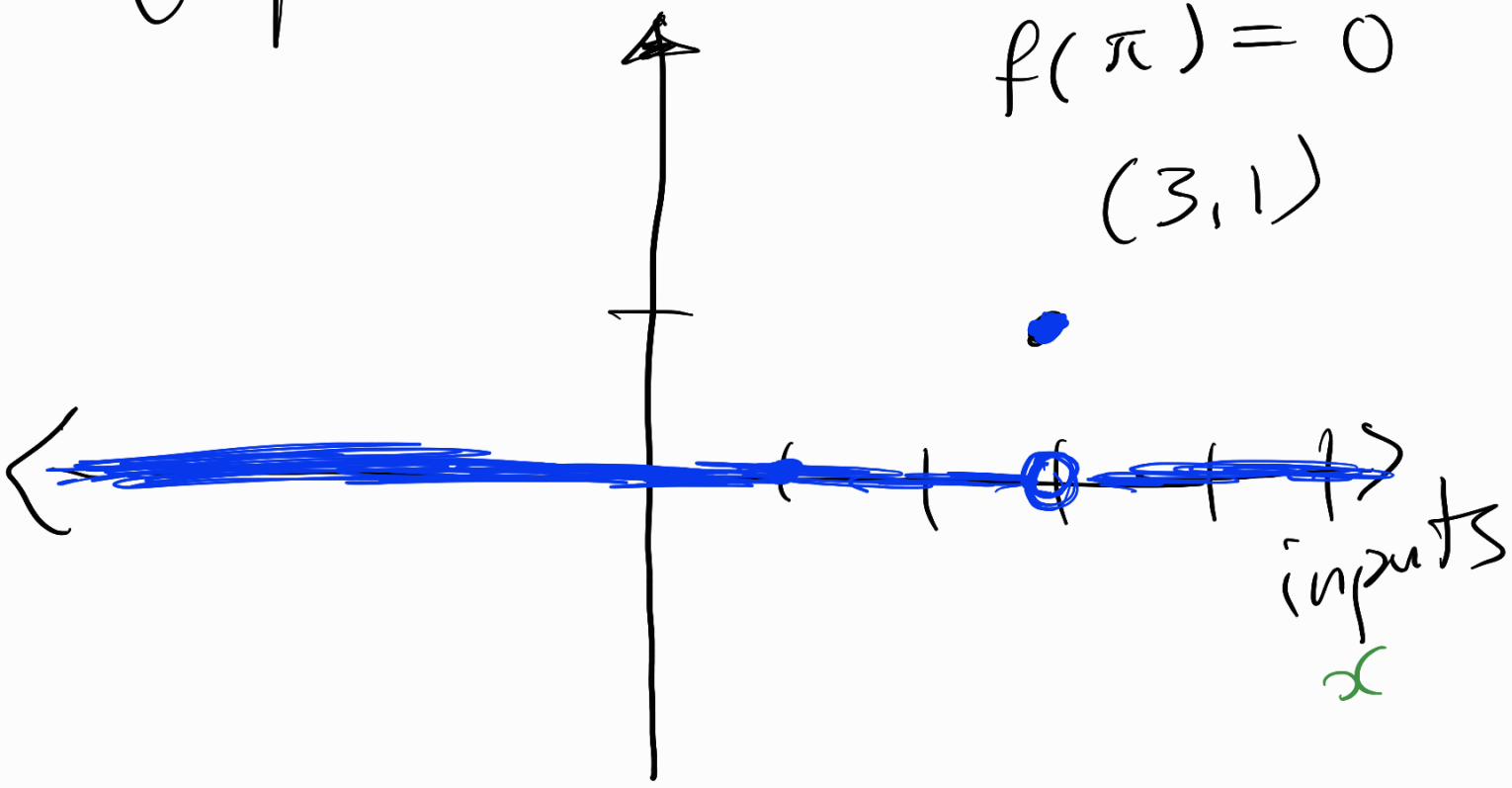
$f(2023) = 0$

Graph of f:

$f(2) = 0$

$f(\pi) = 0$

(3, 1)



Graph out

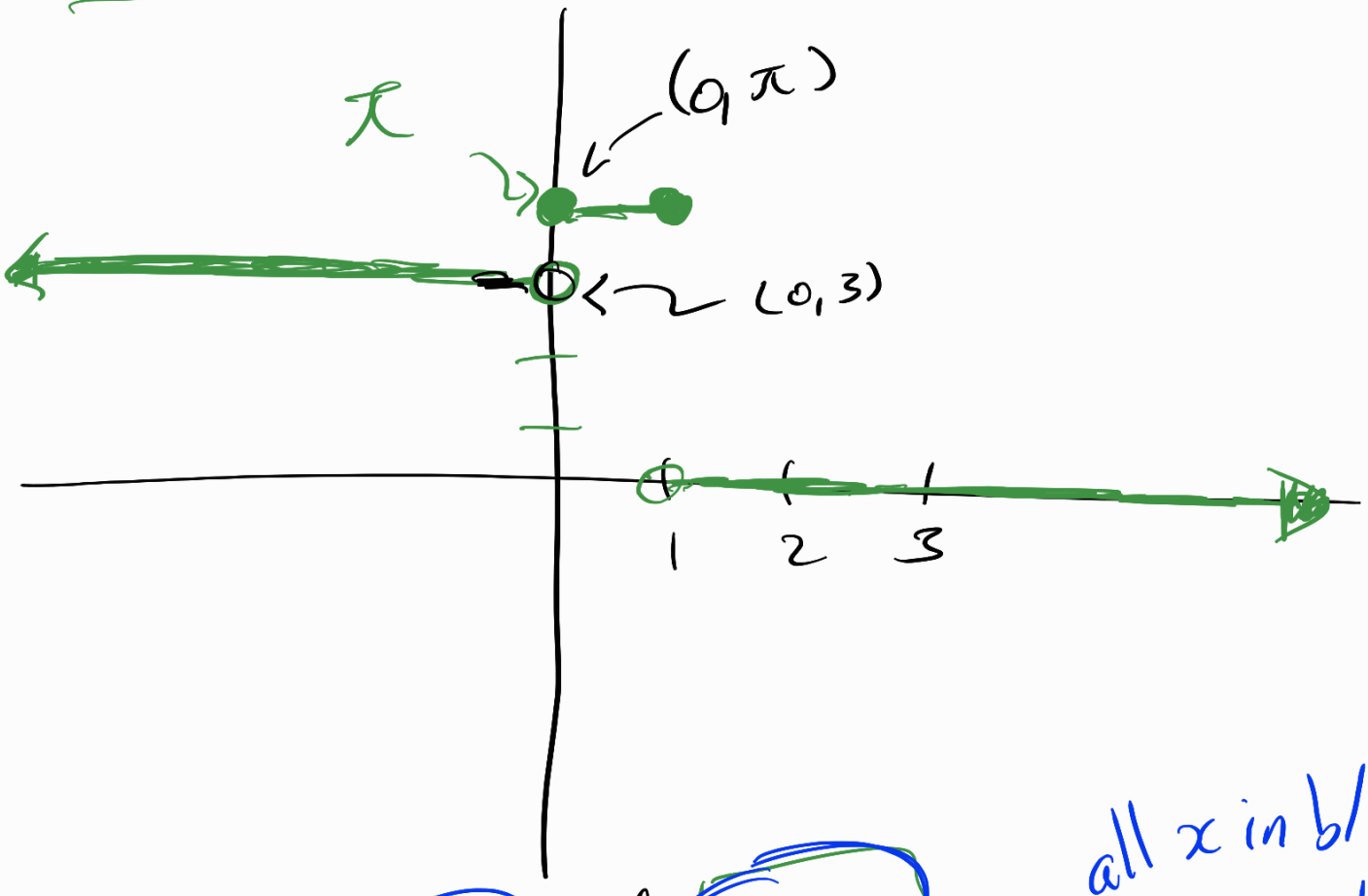
$f(x) =$ { 3 if $x < 0$; 0 if $x > 1$; π else }

outputs $f(5) =$

$f(-2023) = 3$

$f(2023) = 0$

$f(1) = \pi$



$$f(x) = \begin{cases} 2 & \text{if } x > 3 \\ 0 & \text{if } 0 \le x \le 3 \end{cases}$$

all x in b/t 0 and 3 (inclusive)

$$\begin{cases} -x & \text{if } -3 < x < 0 \\ 1 & \text{else} \end{cases}$$

Q1: $f(4) = 2$

$f(3) = 0$

$f(2) = 0$

$f(0) = 0$

$f(-1) =$

$f(-2) =$

Q2: Graph f

$$f(x) = \begin{cases} 2 & \text{if } x > 3 \\ 0 & \text{if } 0 \le x \le 3 \\ -x & \text{if } -3 < x < 0 \\ 1 & \text{else} \end{cases}$$