## CÁLCULOI

1/10/21

① 
$$a = b \iff -a = -b$$

$$\Rightarrow | a = b | falso$$

$$a = b \iff -a = -b | si | a = b|$$
Seria cierta esta peroposición.
$$a = b \iff -a \ge -b | a = b| \iff a,b \ge 0$$

$$a = b \implies |a| = |b| \iff a,b \ge 0$$

$$a = b \implies |a| \ge |b| \iff a,b \le 0$$

$$Si = a,b \ge 0 \implies -a,-b \le 0$$

$$|a| \le |b| = |a| \le |b| = -a \ge b$$

$$-|a| \ge -|b| = -a \ge b$$

$$a \le b | |a| \le |b| | (si = b) = 0$$

$$a \le b | |a| \le |b| | (si = a,b \ge 0) | Si = a \ge 0$$

a 
$$\pm b$$
  $a + (-a) = 0 \implies S$ ;  $a \le b \implies -b \le -a$ 

para que

 $b + (-b) = 0$ 

|a|=|b| >i b=0

② 
$$a \le b$$
  $\Rightarrow a + c \le b + d$ 

Suponiendo:
 $a + c \le b + d \Longrightarrow (-a) + c + a \le (-a) + b + d$ 
 $c \le (-a + b) + d$ 
 $c \le (-a + b) + d$ 
 $c \le d + (-a + b)$  [civeto]

 $c \le d$ 

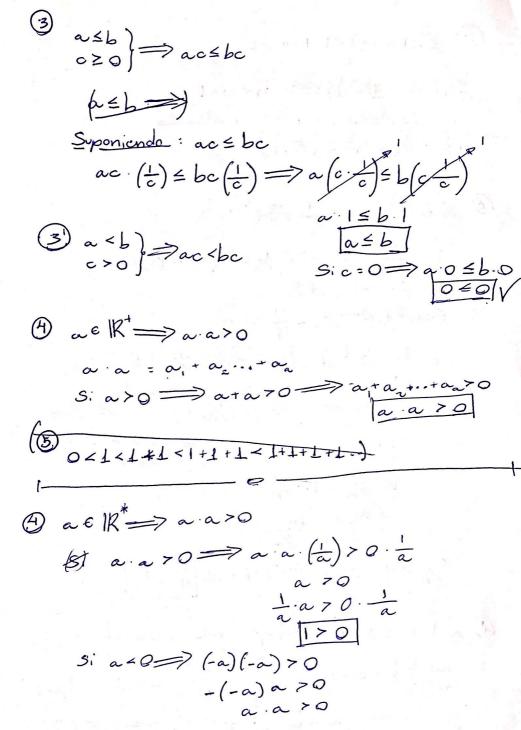
Suponiendo:  $a + c \le b + d$ 
 $c \le d$ 

Suponiendo:  $a + c \le b + d$ 
 $c \le d$ 
 $c \le d$ 
 $c \le d$ 

Country

0-(6-)+0

2 = 0 = (2-1+ 5



(5) O<1<1+1<1+1+1... VneR I(n+1) ⇒ n<n+1 Vnelk; n<(n+1) a. - 1 => R×R→R a \$0 => #/a (7)  $6 < a < b \iff 6 < \frac{1}{b} < \frac{1}{a}$ a./a=0=b/b => a/a=b/b Siacb 1/a > 1/b para que se cumpla la igualdad a /a = b / /b 2/b = 1/b/ 0/6<1=>/6</a Suponiendo ac < bd a < b } = a c < 1 Cierto