

existen número
$$2/3$$
:

 $2 = 2 \cdot b + 16$
 $0 \le 16 \le 16$

ademós son vínicos

 $13 = 1.5 + 16$
 $13 \mod 5 = 3$
 $13 = 2.5 + 3$
 $10 \mod 5 = 2$
 $-10 = 4(3) + 2$

Def: $2 = b \mod n$ sin $n \mid (b-2)$

Prox: $2 = b \mod n$ sin $a \mod n = b \mod n$

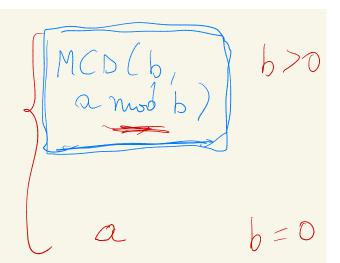
mod 5 3 = 8 mos 5 5 | 8 - 3 3 mod 5 = 3 = 8 mod 5 $0 \le \beta < 5$ 130,1,2,343/ $a \equiv b \mod n$ CE d mod n $=) (2+c) \equiv (b+d) \mod n$ (2.C) = (b.d) mod M

Algoritmes bosica MCD: moxims comun divisoz O ((Log z n) 2>6 MCD (a, b) O((log za))

MCD (2,b)

$$a > 0$$
 $a > 0$
 $a > 0$

$$MCD(a,b) = a > b > 0$$
 $a \neq 0$



$$MCD(S,0) = 5$$
 $MCD(14,12) = MCD(12,2)$
 $= MCD(2,0)$
 $= 2$

Prolim a $\geq b \geq 0$ a $\neq 0$ a $\neq 0$ a $\neq 0$ a $\neq 0$ $\neq 0$