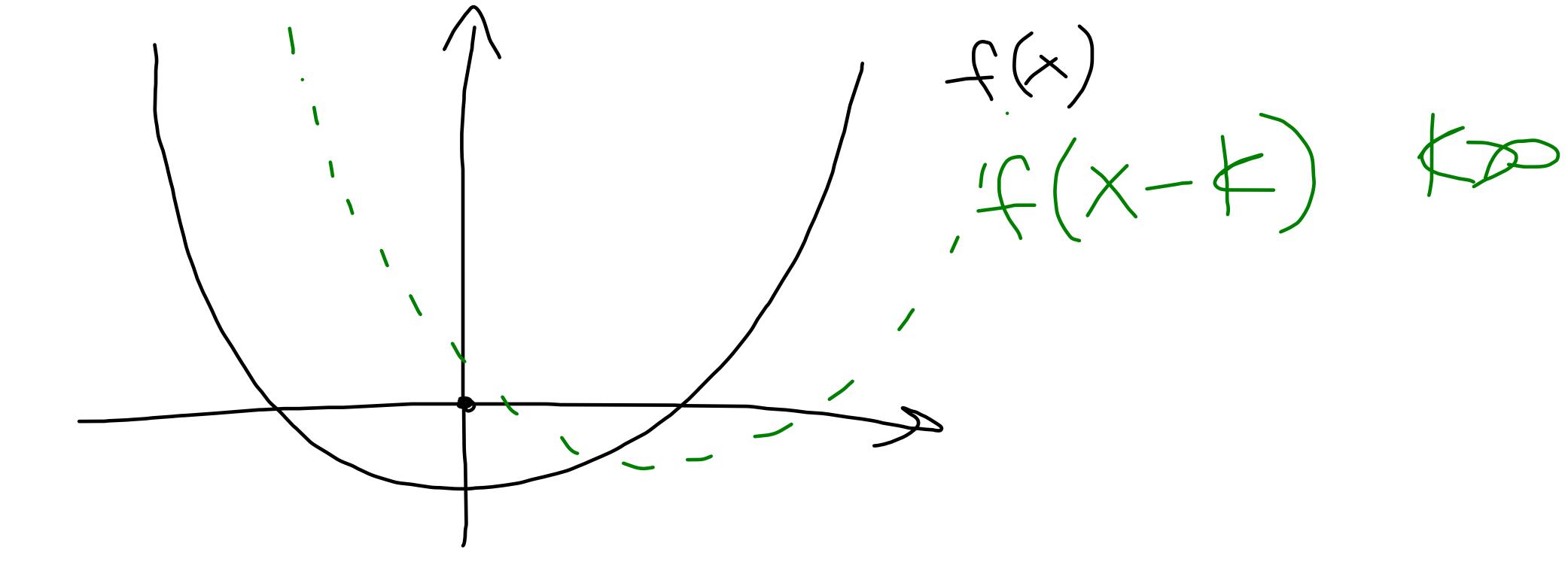
TUTORATIO ATTIVO WENERDÍ h: 1/4-16 AULE: 3.10 - 2.5 CANAGEA CA. B

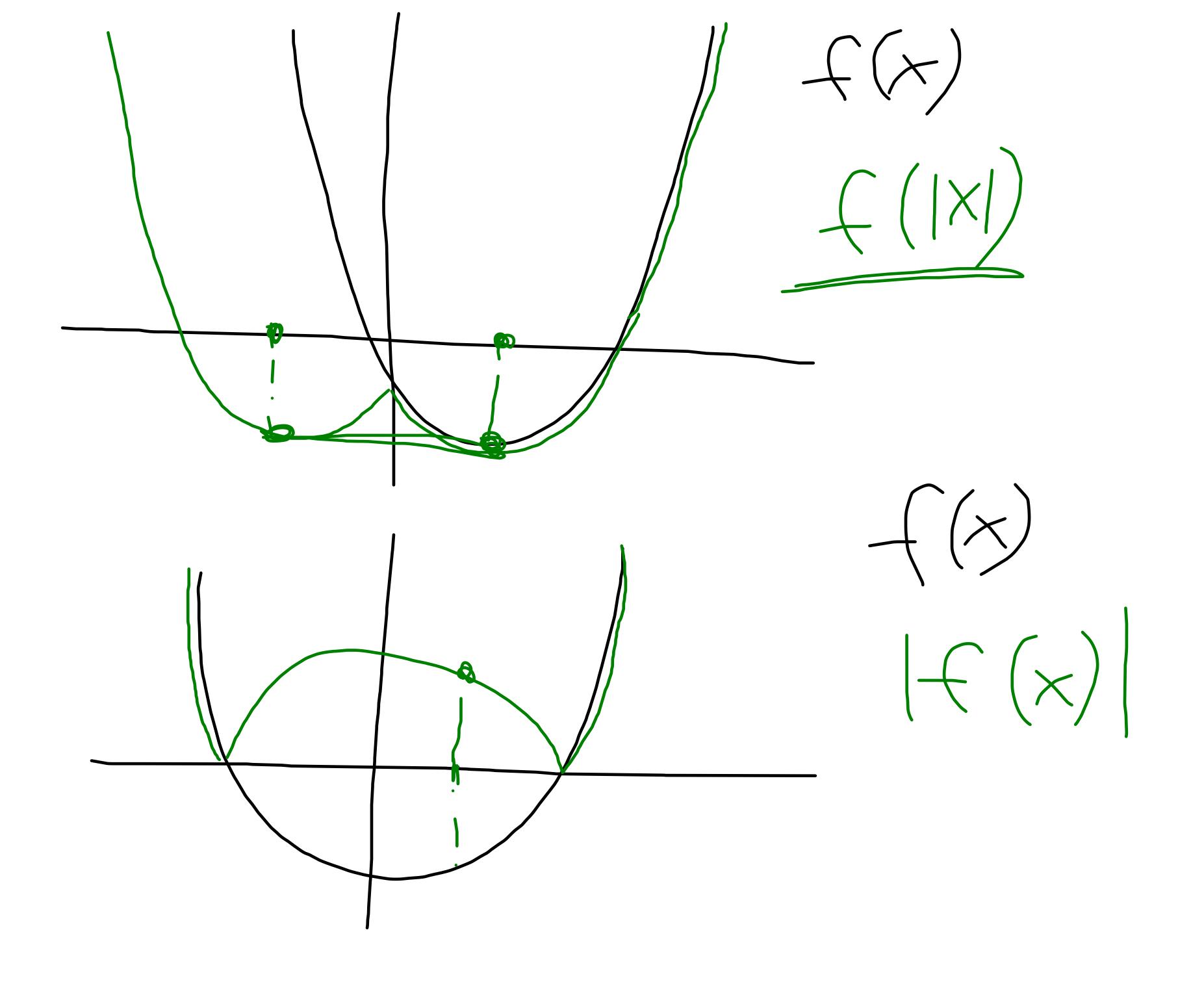
Det Sia TERT. Sia ASR. Diciamo do A & T-periodico a HREA, HREL DETET. Det Sia A = RT- Perushas, Sia f: A -> R. Dichamp de FET-Pernodices 18 + xeA f(x)-f(x+kT) + kell

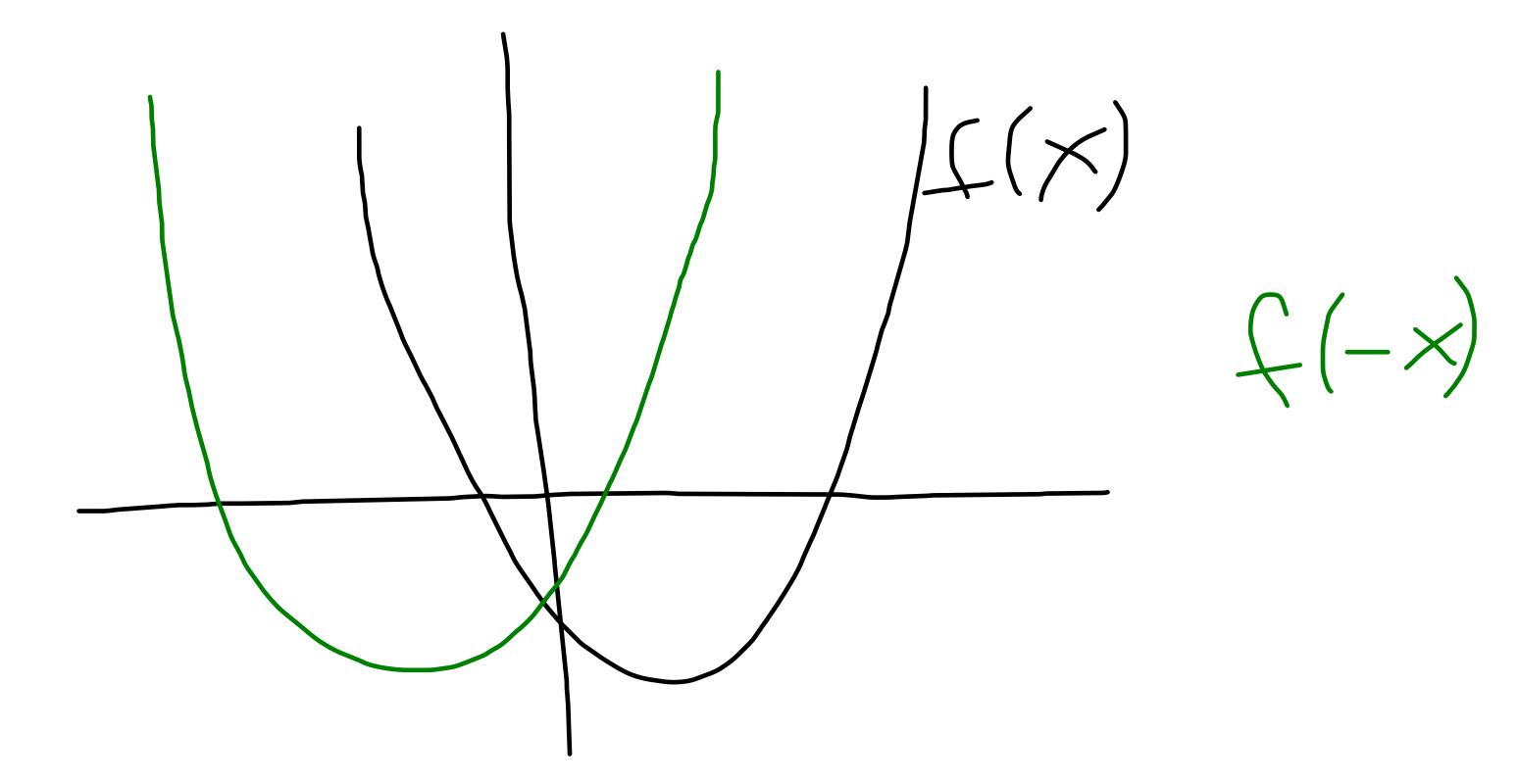
PERIODO é el proprieta

per cui vale la proprieta f(x) = f(x+T)ES (x) = x-(x) - PARTE
FRAZIONARIA - 1- permolia:

 $\int (x) = \int (x+1)$ /pnf 10 f(x+1) = x+1-[x+1] = x-[x]=f(x)







E LEMENTP) FUNZIONI  $f(x) = |x| = \langle x \times x \rangle$ 1-xxx  $|X| \gg |X| = 0$  $\frac{1}{2} \left| \frac{1}{2} \times \frac{1}{2} \right| = \frac{1}{2} \left| \frac{1}{2} \right|$ DISUGUAGCIANDA  $|x+y| \le |x|+|y|$   $|x-y| \ge |x|-|y|$ TRIANGUARE

10 = CO & appoint of the property of the prope Total a ER 1a1 al hstantes Traxea

X-0/2 a 1,555h -> < X - a < > a > < x < a + <

X\_0\> Sia ae R+, MEMY Dome de 8EP+ É RADICE M-651ma J10 Z = 0e la indichiama con

 $i) \quad \sqrt{ab} = \sqrt{a} \cdot \sqrt{b}$ (1)  $\sqrt{a+b} \leq \sqrt{a} + \sqrt{b}$ 

## POTENLA/ESPONENZIALE

$$\hat{Q} = \Delta$$

$$a = \Delta$$

$$\lambda a \in \mathbb{R}_+$$

$$\mathcal{O}_{\mathcal{M}} = \mathcal{O}_{\mathcal{M}} = \mathcal{O}_{\mathcal{M}}$$

$$\sim \frac{\sqrt{m+m}}{\sqrt{m+m}} = \frac{\sqrt{m}}{\sqrt{m}} = \frac{\sqrt{m}}{\sqrt{m}}$$

$$(ab)^m = a \cdot b^m$$

Per densité posso définire (d) Det Sia af Ry 117 chiamiamo FUNZIONE ESPONENZIALE un base a la funzione exp.  $R \rightarrow R$  exp.(x) = a

TESZ (11) f RER,  $a^{2} > 0$ (2) f R,  $y \in \mathbb{R}$ ,  $a^{2} + y = a^{2} \cdot 0^{2}$ (3) f R,  $y \in \mathbb{R}$  ( $a^{2}$ ) f =  $a^{2}$  f(4)  $(a \cdot b)^{2} = a^{2} \cdot b^{2}$ 

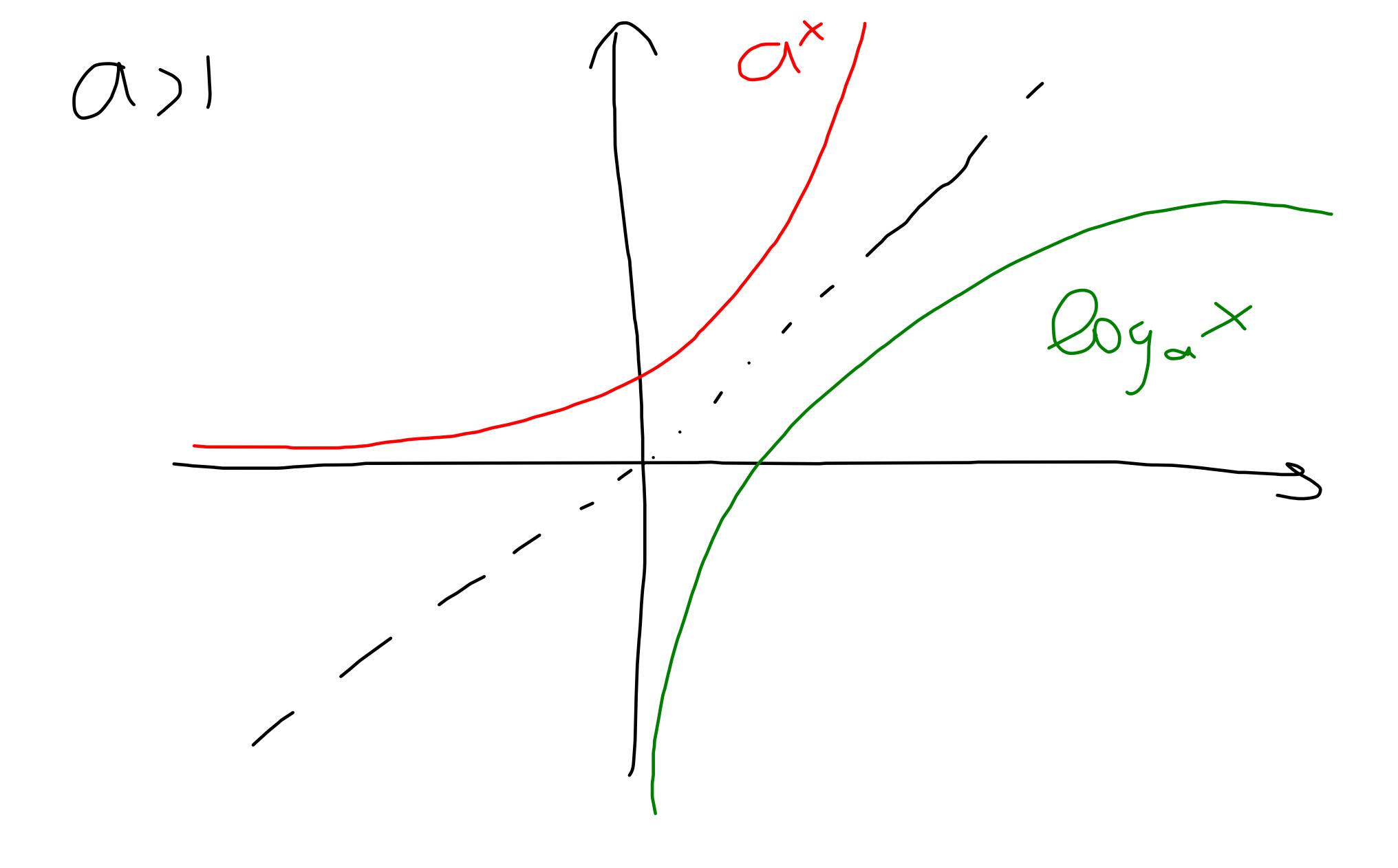
TEOR Sia a ETR+ 'SI' 1) Se a >1 = Dexp é STRETT. CRESCENTE 2) Se OLALI DEREST. (3) exea: P = P (Imvertible)

 Def Sia  $a \in \mathbb{R}^* \{i\}$ . Chlamiamo LOGARITTO m base a pi moessa di expa. loga = (OXP-) B99: P+ -> 1K

TEOR Sia at P+ 1414 (1) Se a > 1 = loga & STRETT )

(2) Se xac1 = loga & STRETT)  $(3) \log_{q} : \mathbb{Z} \xrightarrow{1-1} \mathbb{Z}$ loga y é l'examente da dans ad a per atterner y, coà p'unico à

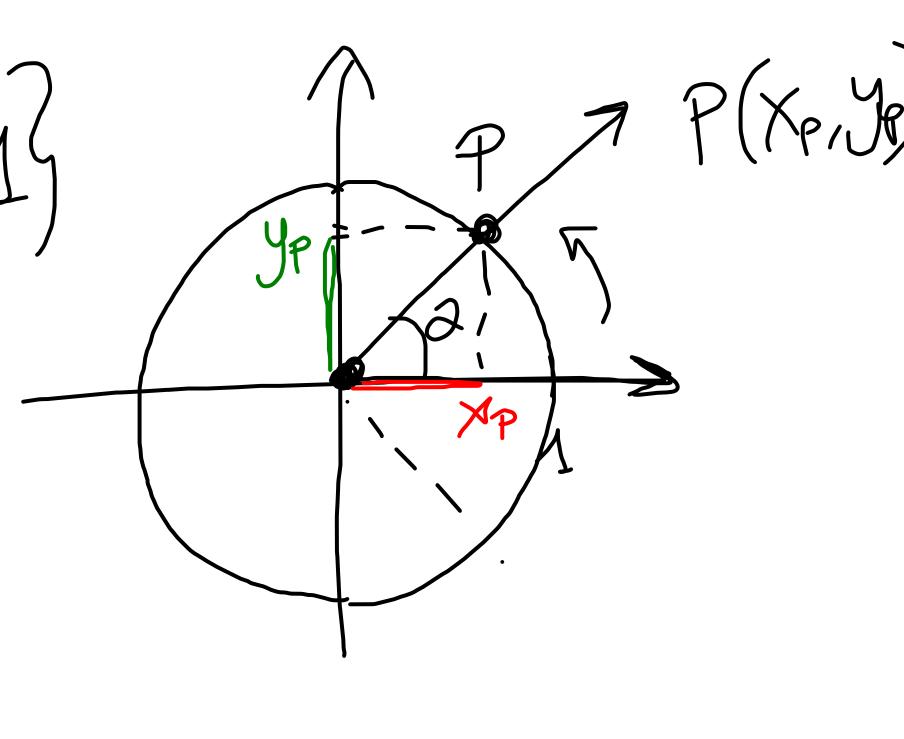
0>1 0 ( 0 ( )



Sa ac Pt PROPERTA  $\log(xy) = \log x + \log y$ -D) \( \lambda \text{ xy \in \( \mathbb{P}\_+ \)  $\log \left(\frac{x}{y}\right) = \log x - \log y$ 12) 4x, y ∈ P+  $\left( \log(2) - 2 \log 2 \right)$ 3) HXER DER

69x + 692 4  $\log_a(xy) = \log_a x + \log_a y$ TENTO ON BASE

CIRCOLAR 1 FUNZIONI  $(xy) \in \mathbb{R} / x^2 + y^2 = 1$ CIRCONFERENZA GONIOMETRICA



oss onen, cos somo PERIODICHE

di perualo 2T

nen (-2) = - nen (2)

sem 
$$(T-2) = nen (2)$$
 $y_e = -y_e$ 

$$\cos(-\lambda) = \cos(\lambda)$$

$$\cos(\pi - \lambda) = -\cos(\lambda)$$

$$\cos(\pi - \lambda) = -\cos(\lambda$$

