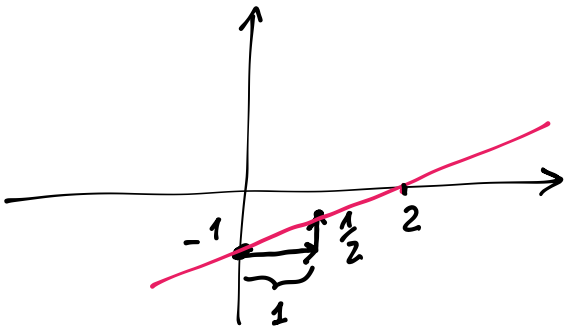
23/2/2018

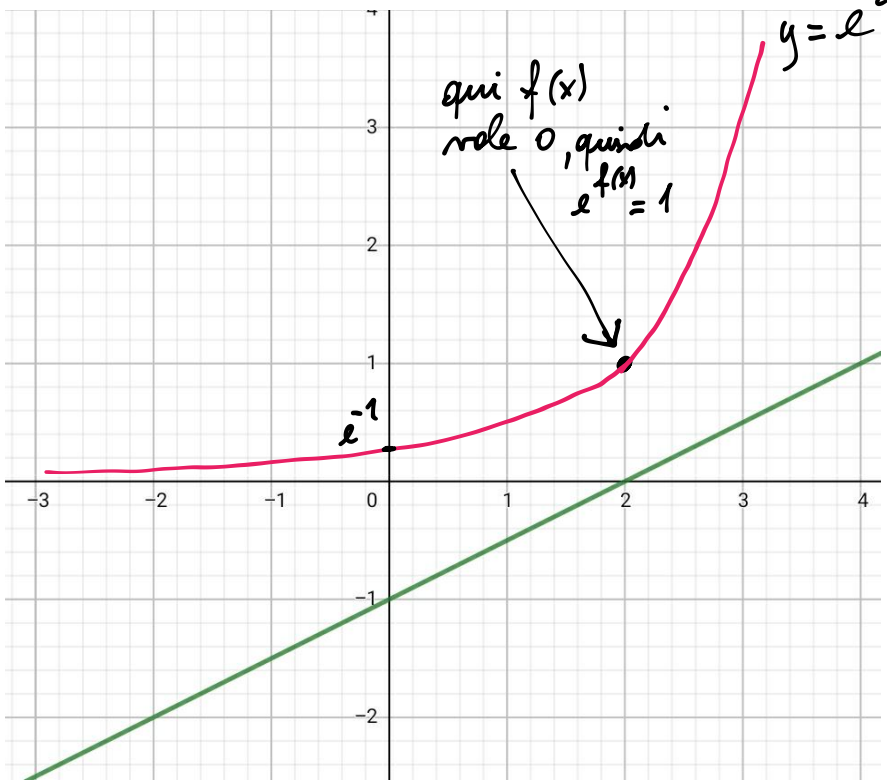
Pg. 589 N° 123

$y = e^{\frac{1}{2}x-1}$

IDEA ⇝ DISEGNARE PRIMA $y = \frac{1}{2}x - 1$, POI $e^{\frac{1}{2}x-1}$



$y = \frac{1}{2}x - 1$



$y = e^{f(x)}$

pg. 593 N 365

Risolvere questa equazione GRAFICAMENTE

$$2^{1-x} = x + 1$$

$$\begin{cases} y = 2^{1-x} & \text{CURVA ESPONENZIALE} \\ y = x + 1 & \text{RETTA} \end{cases}$$

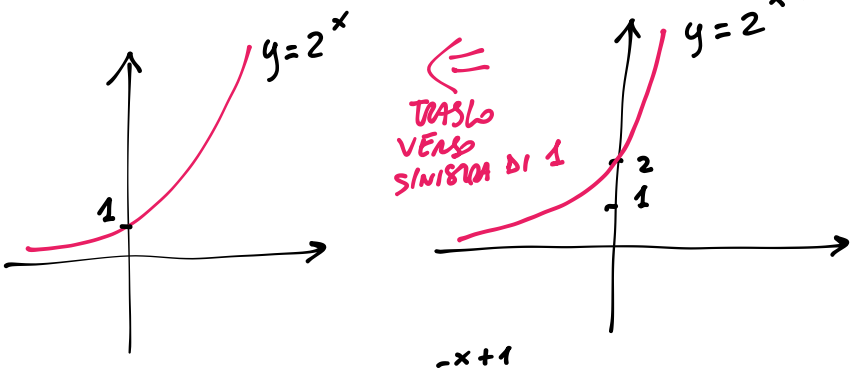
Devo valutare graficamente le intersezioni

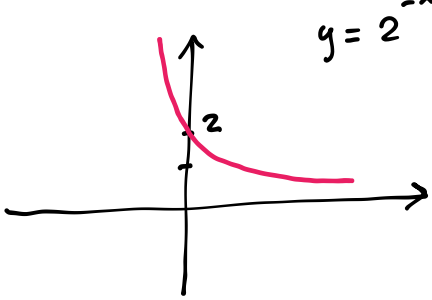
↓

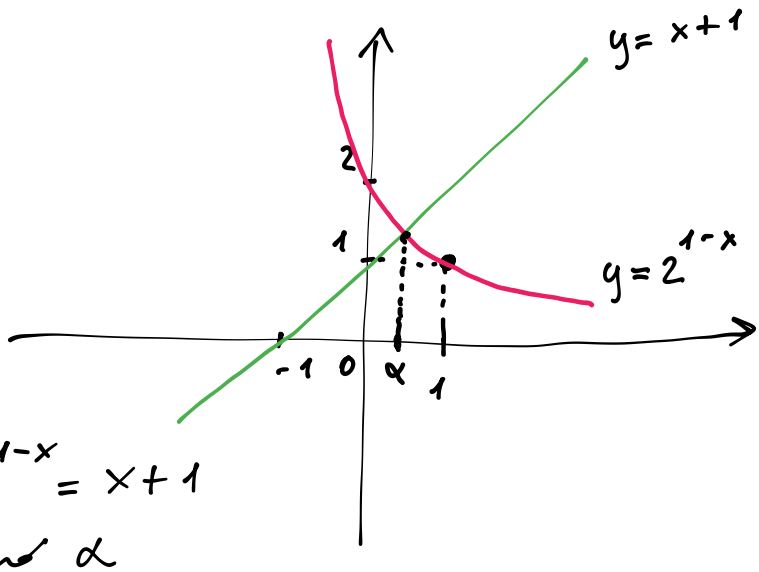
le ascisse (x) delle intersezioni sono le soluzione del problema

$y = 2^{1-x}$

$2^x \rightsquigarrow 2^{x+1} \rightsquigarrow 2^{-x+1}$







La soluzione dell'eq. $2^{1-x} = x + 1$ è unica ed è un numero α tale che $0 < \alpha < 1$