= e.1.1 = e/ bulunur.

George (II. 8gr.) Kisa Sinar-I 22.10.14

Som:  $\lim_{x\to 1} \frac{e^x - e}{\ln x}$  limitini (1' Haspitalsia)

hesaplayinia  $\lim_{x\to 1} \frac{e^x - e}{\ln x} = \lim_{x\to 1} \frac{e(\frac{e^x}{e}-1)}{\ln x} = e.\lim_{x\to 1} \frac{e^{x-1}-1}{\ln [1+(x-1)]}$   $= \left\{\frac{x-1=t}{x\to 1\to t\to 0}\right\} = e.\lim_{t\to 0} \frac{e^{t-1}}{\ln (1+t)} = e.\lim_{t\to 0} \frac{t}{\ln (1+t)} = \frac{1}{t\to 0} \frac{e^{t-1}}{\ln (1+t)} = \frac{1}{t\to 0} \frac{e^{t-1}}{\ln$