## CALCULUS I FINAL EXAM

24/12/2019

questions. \* SOLVE 3

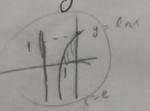
1) 
$$\frac{F}{X} = \frac{1}{\int \frac{x^2}{\sin t} dt}$$

$$Find \frac{dF}{dx}$$



 $2) \int_{-4}^{4} x^{3} e^{x} dx = ?$ 

- 3) At the first quadrant the region is bounded by y=lnx, the line x=e, and x-axis. Find area of given region. un have = (s(x)dy
- 4) The region given above in the 3rd question is rotated about the line x=e. Find volume of generated solid.



GOOD LUCK ...

45min. Imre GÜVEN

