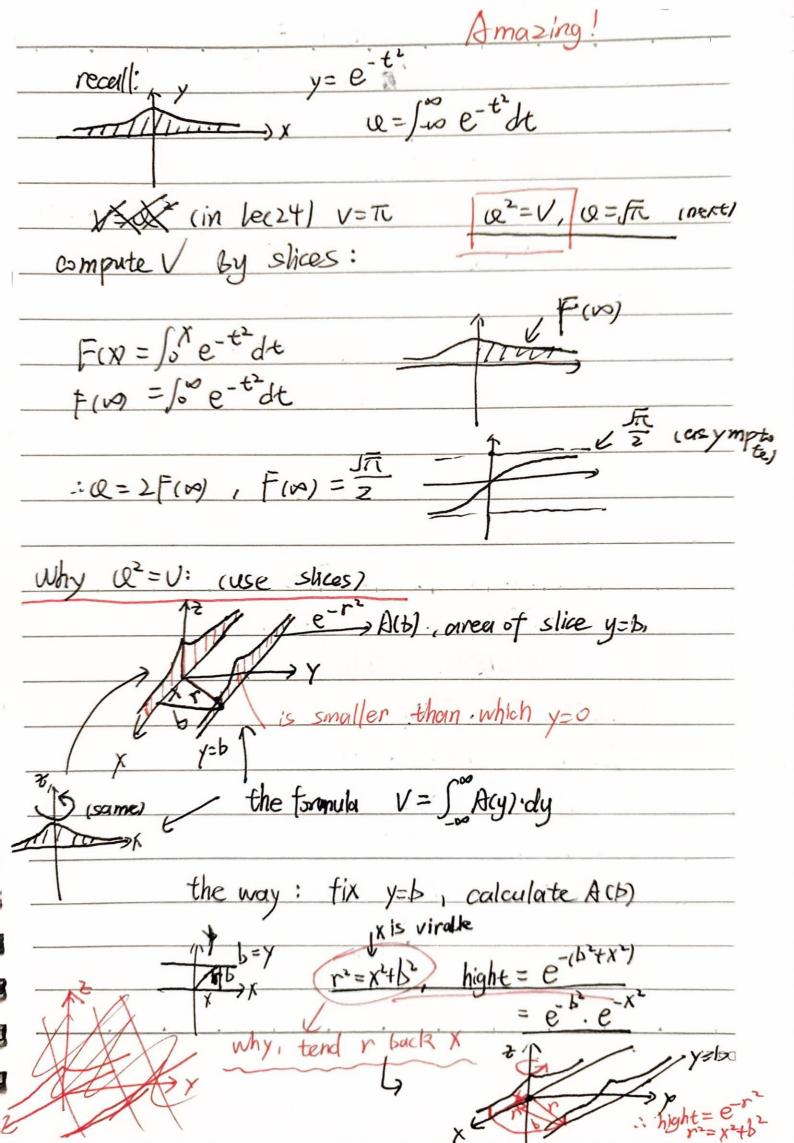
LEC25\$ 224.12.28 two intervals 1- Y=x trape viclal rule: $\Delta x (\frac{1}{2}x + y_1 + \frac{1}{2}y_2)$ $b = 2a = 1, \Delta x = \frac{b-a}{n} = \frac{1}{2}$ = = (-1+ =+ + -) x0.96 Simpson's rule: 学(ys+4y1+y2)= ナ(1+4·多+之) SU.6944 Simpson's - Excetans 2 (DX) 4 Men Anemonic device: chedz: f(x)=1 AX.(=+ N-1+=) = AX.n

$$\Delta x = \frac{b-q}{n} = b-q$$

$$\int_{a}^{b} 1 dx = b-a$$



A(b) area under e-b-e-x2 = cie-x2 A(1) = 500 e-12 e-x2 dx Q= 1-60 e-+2 dt the area of e-t'under V = [Buy / dy = [ey. Q. dy =Q. 5-0 e-y2dy =Q.Q=Q2 V's slice = Acy) Exam Question 1. Calculate Definite Integrals (VIA FTC 1 & SUBSTITUTION) 2 NUMERICIPAL APPROX: RIEMANN SUM TRAPEZUADAL RULE SIMPSON'S RULE BREAS / VOLUMES Other Cumulative sums (AVG) SI SKETCH FIX = Sa fit) dt

Date.

