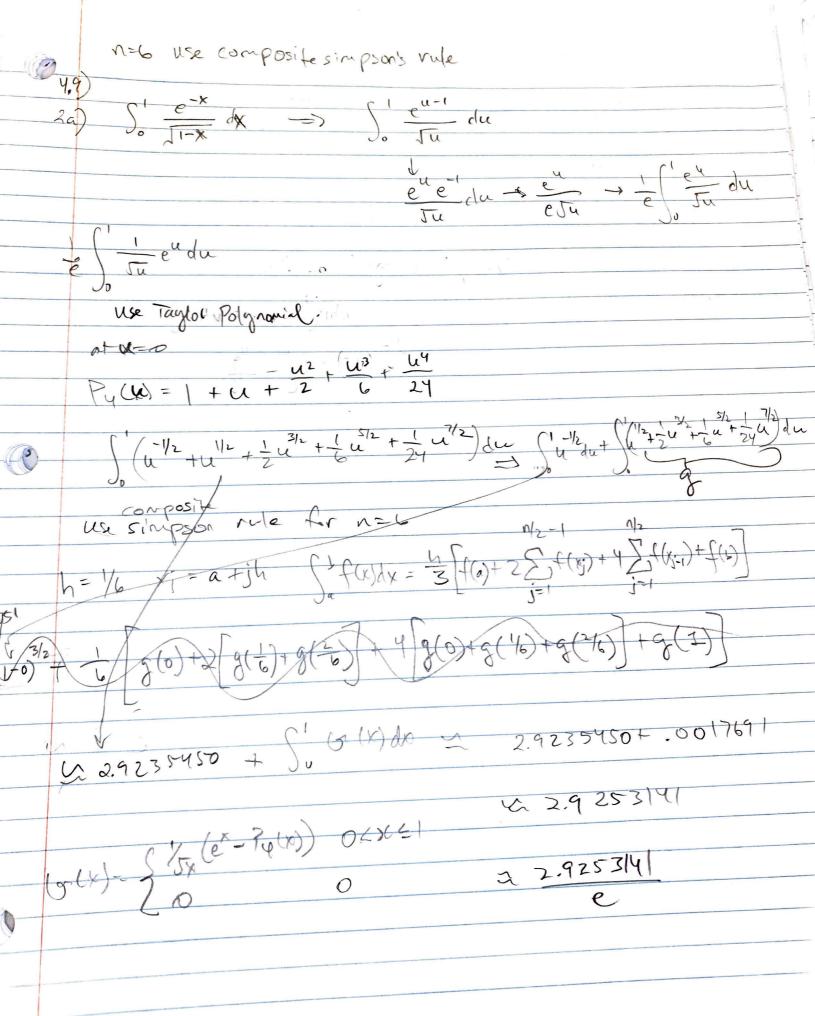


 $\frac{h}{3} \left[f(a) + 2 \sum_{j=1}^{n/2} (x_j) + 4 \sum_{j=1}^{n/2} (x_{j-1}) + f(y) \right]$ use legendre polynomial coefficients 7) ii) n=37 = 4 mis along y; n is along x (ysin(x) + x cos(y)) dydx n is odd wont work with simpson's quarafraquere Nouter = 37 + 11 - 511 .6521451549 1521451549 hine: = 271-0= 1/2 ,3478548451 have to use gaussian quadrature Joysin(x) +xcosy dy -> (an-1)t+2n)sin(x)+xcos (an-1)t+2n) (an-1)& (2n, 1) (0,-1) t= + 4+5 $\frac{1}{\pi} = \frac{1}{\eta} g - 1$ 4= (++) 17 [[m+n]six[snw+1]+ [snw+1] cos(n+n)[sn] q \$ -11-8362 -1 = 4 (-11)+6 X= 571+ 1/4 W= 4x-1/tv- 1/2 (W+-1/5) (5/11) = X.

a. n=m=p=2 $\int_{0}^{2} \int_{1}^{0.5} e^{x+y+2}$ [1] dzdydx 16 1 ! -



x=14 $\frac{-1}{t^2}dt^2dx$ 2l) Sinxdx -) (t) sin(t) tat (ty sin (t) ti dt $\int_{0}^{t} t^{*} \sin(\frac{t}{\epsilon}) dt \qquad n=10$ $\int_{0}^{t} t^{*} \sin(\frac{t}{\epsilon}) dt \qquad n=10$ $\int_{0}^{t} t^{*} \sin(\frac{t}{\epsilon}) dt \qquad n=10$