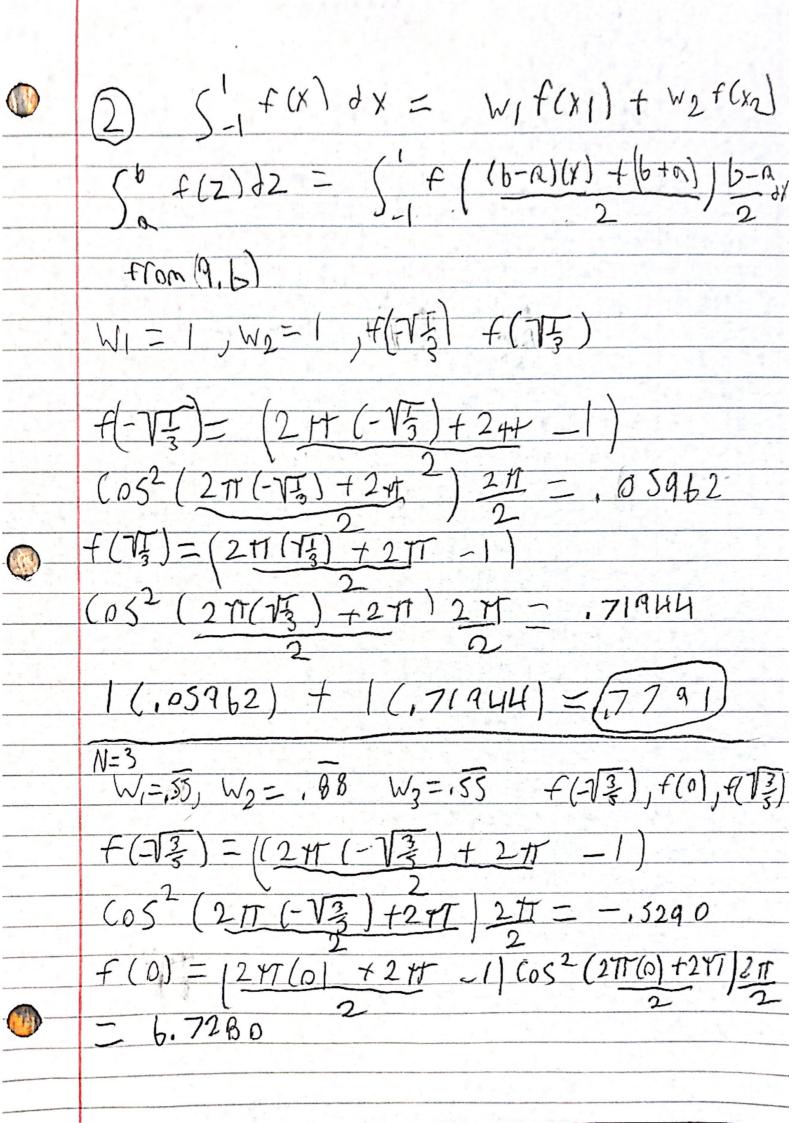
Simpson rule n=2 $(x-1)\cos^2 x dx = \frac{h}{2}(f(x)+4f(x)+f(x))$ $h = \frac{b-a}{0} = \frac{2tt-0}{2} = tt$ f(0) = (0-1)(05/0) = -1 $f(1) = (tt-1)(os^2(tt)) = (tt-1)$ $F(2) = (2tt-1) \cos^2(2t1) (2tr-1)$ TT (-1+ 4(M-1)+(2M-1)) H (647-6) = (13.4560) Simpson rule n=4 $\int_{0}^{27} (x-1) \left(p 5^{2}(x) dx = \frac{h}{3} \left(f(0) + 9 f(1) + 2 f(2) + 4 f(0) + 6 \right) \right)$ h= (b-a) = 2tr-0 f(0) = (0-1)(05(0) = -1+(1)=(其-1)(05²(共)=0

 $F(x_{2}) = (T - 1) (os (T) = T - 1)$ $F(x_{3}) = (3 - 1) (os (T) = 0)$ $F(x_{4}) = (2T - 1) (os (T) = 2T - 1)$ T(-1 + 0 + 2T - 1) + 0 + 2T - 1 T(-1 + 0 + 2T - 1) = (4 - 1) = (4 - 1)



 $f(\sqrt{3}) = (247(\sqrt{3}) + 247 - 1)$ $(05^{2}(247(\sqrt{3}) + 247) = 8.2427$ (.55(-.52190) + .88(6.7280) + .55(8.2927) = (0.2936)