× .0699

1b) Sox2exdx compute B3,3 h=1-0 x; -a+j'l

2 [f(a)+a≥ f(xj)+f(b)]
h=1-0 x; -a+j'l Composite vaperoil n=1,2,4,8,16 A11 = = [f(0) + f(1)] = .1839 h -1 e2, (= 1 [+(8) + 2 (6.8)]+f(1)]= .1678 h=1/2 n -2 h=1/4 R3, = = [f(0)+2[f(0.25)+f(0.5)+f(0.75)]+f(0) = .1625 n=4 Re, 2 = R21 + 3(R2,1-R1,1) = . 1624 B3,2 = P311 + 1 (R3,1-R2,1) = ,2607 R3,3 = R3,2 + 15 (R3,2 - B2,2) =. 1606 7) approximate S. f(x) dx f(x) 0.4142 2.6734 2.8974 3.0976 3.2804 n=1,2,4,8,6,... R1,1 = 2 [f(1)+f(5)] = 11-3892 B2,1= 1 [f(1)+a[f(3)]+f(5)]=11.4894  $h = \frac{4}{2} = 2$ R3,1= = = [f(1)+2[f(2)+f(3)+f(4)]+f(5)]=11.5157 h=4=1 1 = 1 BZ,Z= RZ,1+3 (RZ,1-R) = 11.5228 93,2 - P3,1+ -3 (R3,1-R2,1)=11-5245 PR3,3 = P3,2 + 15 (R3,2 - P2,2) = 11.5246 0(hb)

9)  $\int_{3}^{2} f(x) dx$ f(2) = 0.51342, f(3)=0.36788, R31=0.43687, and R33=0.43662 N= 4 find fla.5) Pi311 = 0.43687 = + [f(2) + 2[f(0.25)+f(2.5)+f(2.75)]+f(3)] 124 = = = [.51342+2[f(2.25)+f(2.5)+f(2.75)]+0.36788] 45 1/2 12,1 = + [. 51342 + 2 f (2.5) + ,36788] n=2 Pul= = [,51342+.36788] -, 44065  $R_{42} = \frac{4}{3}R_{21} - \frac{.44065}{3}$ R32= 1.43687 + 3 (.43687) - 3 R211 R33=0.43662=43687+3(.43687)-3R21+15(.43687+3(.43687)-3R21)-151242 0.43662= .43687+ \frac{1}{3}(.43687)+\frac{1}{5}(.43687)+\frac{1}{5}(.43687)+\frac{1}{3}(.43687)+\frac{1}{3}(.43687)+\frac{1}{3}(.43687)+\frac{1}{3}(.43687)+\frac{1}{3}(.43687)+\frac{1}{3}(.43687)+\frac{1}{3}(.43687)+\frac{1}{3}(.43687)+\frac{1}{3}(.43687)+\frac{1}{3}(.43687)+\frac{1}{3}(.43687)+\frac{1}{3}(.43687)+\frac{1}{3}(.43687)+\frac{1}{3}(.43687)+\frac{1}{3}(.43687)+\frac{1}{3}(.43687)+\frac{1}{3}(.43687)+\frac{1}{3}(.43687)+\frac{1}{3}(.43687)+\frac{1}{3}(.43687)+\frac{1}{3}(.43687)+\frac{1}{3}(.43687)+\frac{1}{3}(.43687)+\frac{1}{3}(.43687)+\frac{1}{3}(.43687)+\frac{1}{3}(.43687)+\frac{1}{3}(.43687)+\frac{1}{3}(.43687)+\frac{1}{3}(.43687)+\frac{1}{3}(.43687)+\frac{1}{3}(.43687)+\frac{1}{3}(.43687)+\frac{1}{3}(.43687)+\frac{1}{3}(.43687)+\frac{1}{3}(.43687)+\frac{1}{3}(.43687)+\frac{1}{3}(.43687)+\frac{1}{3}(.43687)+\frac{1}{3}(.43687)+\frac{1}{3}(.43687)+\frac{1}{3}(.43687)+\frac{1}{3}(.43687)+\frac{1}{3}(.43687)+\frac{1}{3}(.43687)+\frac{1}{3}(.43687)+\frac{1}{3}(.43687)+\frac{1}{3}(.43687)+\frac{1}{3}(.43687)+\frac{1}{3}(.43687)+\frac{1}{3}(.43687)+\frac{1}{3}(.43687)+\frac{1}{3}(.43687)+\frac{1}{3}(.43687)+\frac{1}{3}(.43687)+\frac{1}{3}(.43687)+\frac{1}{3}(.43687)+\frac{1}{3}(.43687)+\frac{1}{3}(.43687)+\frac{1}{3}(.43687)+\frac{1}{3}(.43687)+\frac{1}{3}(.43687)+\frac{1}{3}(.43687)+\frac{1}{3}(.43687)+\frac{1}{3}(.43687)+\frac{1}{3}(.43687)+\frac{1}{3}(.43687)+\frac{1}{3}(.43687)+\frac{1}{3}(.43687)+\frac{1}{3}(.43687)+\frac{1}{3}(.43687)+\frac{1}{3}(.43687)+\frac{1}{3}(.43687)+\frac{1}{3}(.43687)+\frac{1}{3}(.43687)+\frac{1}{3}(.43687)+\frac{1}{3}(.43687)+\frac{1}{3}(.43687)+\frac{1}{3}(.43687)+\frac{1}{3}(.43687)+\frac{1}{3}(.43687)+\frac{1}{3}(.43687)+\frac{1}{3}(.43687)+\frac{1}{3}(.43687)+\frac{1}{3}(.43687)+\frac{1}{3}(.43687)+\frac{1}{3}(.43687)+\frac{1}{3}(.43687)+\frac{1}{3}(.43687)+\frac{1}{3}(.43687)+\frac{1}{3}(.43687)+\frac{1}{3}(.43687)+\frac{1}{3}(.43687)+\frac{1}{3}(.43687)+\frac{1}{3}(.43687)+\frac{1}{3}(.43687)+\frac{1}{3}(.43687)+\frac{1}{3}(.43687)+\frac{1}{3}(.43687)+\frac{1}{  $-.937 \Rightarrow -\frac{20}{45} \left[ \frac{1}{4} \left[ .51342 + 2f(a.5) + .36188 \right] \right]$  $= -\frac{1}{9}(.51342+.36788) -\frac{2}{9}f(a.5)$ f(245) 52, 43118

21) 
$$\int_{1}^{1.6} \frac{2x}{x^{2}-4} dx = \int_{-1}^{1} \left[ \frac{2(.6)t+3.6}{2} - 4 \right] \frac{.6}{2} dt = \int_{-1}^{1} \left[ \frac{12t+3.6}{(.6t+1.3)^{2}-4} \right] .3 dt$$
Solve for  $A = 2$   $2(2) - 1 = 3$