I ded y wy boron the 2 have aboided for the Slevers Howar histy MA 346 KW 8 20,5 x (n (xt1) dx , n=6) /a f(x) dx = \frac{1}{2} (f(a) + 2\xi f(x;) + f(b)) $h = \frac{1}{12} = \frac{0.5 - (-0.5)}{6} = \frac{1}{6}$ $\Rightarrow = \frac{1}{12} \left[f(-0.5) + 2(f(-1/3) + f(-1/6) + f(0) + f(1/3) + f(0.5)) + \frac{1}{12} \right]$ - 12 (0.34657+2(0.13576+0.03038+0+0.62569+0.02589+0.20273 1/2-1 h= m site. 1/2-1 + (-1/6) + + (1/6) = 0.08038 + 0.02569 = 0.05607 = f(-13.1) = f(-1/3)+f(0)+f(1/3)=0d3576+0+0.09589=0,73165 £ 18 [0.34657+2(0.05607)+4(0.23165)+0.20273] = 0.0882744 (6. () f(b) = 2h \(\frac{2}{5} \) \(\lambda \) \(\lamb = 2 ((x2) = q(f(x0) + f(x1) + f(x4) + f(x8)) = 4 (+(-3/8)++(-1/8)++(1/8)++(3/8)) - 103335 D 0.01669 + 0.01472 + O.11949 2 4/2/04 = 4 (0.17625+0.01669+0.01472+0.11942) - 0,08177

4.5/b.
$$\frac{1}{4}(24) \int_{0}^{1} x^{2}e^{-x} dx \Rightarrow R_{3,5}$$
 $R_{1,1} = \frac{1}{2} \left[f(0) + f(1) \right] = \frac{1}{2} \left[(0 + e^{-1}) \right] = 0.18399$
 $R_{2,1} = \frac{1}{2} \left[f(0) + 2(f(0.25) + f(0.25) + f(1)) \right] = \frac{1}{2} \left[(0 + 2(0.15/63) + e^{-1}) \right]$
 $= 0.167786$
 $R_{3,4} = \frac{1}{8} \left[f(0) + 2(f(0.25) + f(0.25) + f(0.25) + f(0.25) + f(1) \right]$
 $= \frac{1}{8} \left[f(0) + 2(f(0.25) + f(0.25) + f(0.25) + f(1) \right]$
 $= 0.167786$
 $R_{2,1} = \frac{1}{8} \left[f(0) + 2(f(0.25) + f(0.25) + f(0.25) + f(1) \right]$
 $= 0.167786$
 $R_{2,1} = \frac{1}{8} \left[f(0) + 2(f(0.25) + f(0.25) + f(1) \right] + f(1) \right]$
 $R_{3,2} = R_{3,1} + \frac{1}{3} \left[R_{3,1} - R_{2,1} \right] = 0.160722$
 $R_{3,3} = R_{3,2} + \frac{1}{15} \left[R_{3,2} - R_{2,2} \right] = 0.16061$
 $R_{3,3} = R_{3,2} + \frac{1}{15} \left[R_{3,2} - R_{2,2} \right] = 0.16061$
 $R_{3,3} = \frac{1}{8} \left[f(1) + f(1) \right] + f(1) +$

f(2.25)= of f(25)=B f(275)=C. R3.1= 8[f(2) + 2(A+B+C)+f(3)]=0.43687 = \$ [0.51342 + 2A+2B+2C + 0.36788] = 0.43687 4 (A+B+C)= 0.43687- (0.8813) 4(A+B+C)= 0.3267075 R.1= 2 (QS1342+0. 36788)= 0.44065. R2, V = 4 (0.51342+ \$ 2B+0.36788)= = B+0.220325. R2,22 R2,1-3(R2,19R1,1) = 2B+0.220325-3(2B+0.220325-0.44065) = &Bto.220325 - 6B+ 0.07344 = 3B+0.293766. R3,2: R3,1-3(R2,4-R2,4) = 0,43687 - \frac{1}{3} (b.,43687 - (\frac{1}{2}B + 0.220325)) = 0.43687 - 1 (0.216545 - 18) = 6B+0,364688 R3.8= R3,2 - 15 (R3,2-R2,2) 04362= 6B+0.364688 - 15 (68 to.364688-(7 B+0.293766)) = 16B+0.764688 - 15 (-3B+09109223) 0.7302 7.8+0.3589598 B= 0.405847

N=2 4.7.26. S, 2-4 dx = Son (4.13) (4.13) 2(13 (6.5773502692)+1.3) / 2(13 (6.513502692)+1.3) 1.00865106 + 0,62299 t= 2x-1-1.6 => t= 2x-26 => God => Sho 2x 2 = 5 2 (1.3) -4 de .0.3 & Fet. 3-x. 061311 3 t+13; t= 0.5773502692 = 1.473205081 65 (450 Ettl.), t=-05773502692=1 1.126794919 0.3. (2.1.47320581 + 2.1.126794919) = 0.3(-243574) = (1.47320508112-4 1.1267949192-4) = - -0.730723086 4(26). \$ 3/10 t +1.3 (20 2) 13 Ez 0.7745966692=> (.532379001=) A 0.3. \(\frac{2 \cdot \lambda \cdot \frac{1}{2 \cdot \ = 0.3(-2.445916741) = -0.733799022 = -0.733799022

11, f(x)= ast 9,x+ a2x2+ 93x3 f(x)= a1+2a2x+3a3x2)(a0+9,x+02x2+93x3) dy=af(-1)+6(f(1))+cf'(-1)+df'(1) = a(a, *1, +92 *03) +b(a, +9, +93) +c(a,-2a2+3a3)+d(a,+2a2+3a3) a (a+b)+ attacas Pa, (b+ccas) 90 Sldx + = a, Sxdx + a, (b+c+d-a) + az Sx2 dr + az (2d+a+b-2c)+ a3 (31+3ctb-a) ao Sidx = ao(arb) a, Sixdx = a, (beard-a) 2 = a+6 0 = b+c+d-a az Six2dx = az (2d+a+6-2c) az Six3dx = 9 (3d+3c+6-a) 2/3 = 2d+a+6-2c 0= 3d+3e+6-a. 13=14-2c 12/2/Ac [11002] -11110 11-22 3/3 2 00-22-1/3 1-11330) 11002 11002 02112 02112 00-22-43 241= -4/3 0004-1/3 >7d=-1/3 0 0 22 0 -20+2 (12-43=> C7 -43-26-43+2/3= 1/3 26+ 6+2-2 => 26+1/3-1/3=2 => b=1 web=2 => are12 2=> are1. a=1, b=1, c=1/3, d=-1/3