I please any boother I have abited by the MAZUL HW9. Sleves Goo Soshi h= 5= 16! b3 we hv 4.1. 21, 51,6 2x 124 dx と=16(年) 千(星) Using des mos, max | fu(3) 1 1 = 2 343 7103 == 16 (0.3)5 (2343,7103) = 0,003955011 S(1,16) = = (+(1)+4(f(1,3))++(1.6)) = 0.1(===+4(-1.12584)+4-2.222) - -0-7391048 5(1,1,3)=015 (f(1)+4(f(1.15))+f(1,3)) = 0,05 (-43 +4(-0.8590103)+(-1,1255411) = 0.261412 S(13, 16) 2 0 (+(1,3) + 4(+(1,40))++ (1.6)) = 0.05(-1.1255411+4 (-1.528326)+ #-22222) = -0.473053365 S(1,1,6)-S(1,1,3)-S(1,3,1,6) = 00.049638 15 (1,66) - S (1,13) - S (13,1,6) 1 4 15 E V 5 (1. fla) dp - 5 (1,1,3) - 5(1.3,1.6) = (-0.73396917 +0.26140+ 0.4730533651 = 0,000496195 28

4.8.14. Si 51.4 xy2dydx he the y = 0,1 les 1.4-12 0,05. Shi Shy 2 dy do = (0.1)(0,05) = 2 Win (x:4:2) = \$ t800 (1.(2,1.1,22)+4 (2,2.1,22)+2 (23.1,22. (strow= 1(21-1.22)+4(22-1.22)+2(2-3x1.22)+4(24422)+1(25x1.2)= = 3.024+ 12.672+6.624+13.824+3,6 = 39,744 Ind mo = 4(21x1,252)+16(2.2x1,252)+8(2,3x11,252)+16(2.4x1,252)+4(2,4x1,252) = 13,125 + 85 + 28,75,660+ 15 € = 094845 1728 Brd mor 2 (Ulx1,32)+8(27x1.32)+4(23x1.32)+8(2.4x1.32)+2(25x1.32) = 93.288 4thropo or 201,204 5th own \$4,096. \$860 (39.744+172.5+93,288+201,204+54,690) - \$60.882

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711 (8h). Sath sath yohr + xcesy dydx. Elect 32-(40) 59 JE Set YSING + X COST dydro Z T. 等, 5 ((11+日) Sin (44 日)+(日山+日)(05(日1+日) dvdu n 23 =7 40= 0.7745966692 m24= 4=0.86\$1363116 4,=0 4,=0 4,=0.3399810436 42=0.3399810436 4328611363116 Gu10 = 0.55 Cy = Cy = Cy = 0.8 478548497 Ey 2015 Cy = 0.6521451849 C412C412 = 0.6521451849 5022 2 Cui (v, i f(4;4)) (0,0) (0,1) (0,2) (0,1) (0,2) (0,2) (0,2) (0,2) (0.3) (1,0) (1.1) -2.91968698966+ 0.80772136304+ 0.47152031 + (1,2) (1,3) (2,0) 1,34713154681+ 1,99021469751+ 3,41539779+ (2,1) (2,2) (2,8) -2.3196434867+ -2.8096764700+ 2.7533392).502 - 11.83624

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5.1.2d y = tyte, 22 t 4 4, dy (2) 24 y to the type = (yei) + (yei) = (1 the) (yei) 7 y' (4) = (4) = 7 y + lay = t + lne+c, y= W(tetc)

4 / 1/2 y(v)=4 4+ln4=2+lnatc,

2+ ln4-ln2=c,=2+ln2. (f(e,y,)-f(e,y))=(+4,+4,- +42+42 +42+42 Estite + Etite + ernely 1 - Elyn - Etin - Ery = ((4,+e) ((4,20e) = e24+ e4, - e212-612 (ey,+e)(ty,+e) 4, (1241) - 42 (124e) £24,42+ £34,4 €242+62 (44-42) (+2+e) £24,42 + £24, + £242 £ £2 Degrot salisty lipshitz Conditions theorem is not explicable The lander to Stender one of different colors, so flore is we unque solution. Thus, ite got well-posed.

y = t (sih 2e-2ey), 1 = + 2, 4(1) 22, 620.25. 5.2.24 100 = y(1)= 2 W,= Wo+ 0.25 (884 (.25) (8/n (2+1,25) -2.1.25. Wo))=1.295755 W22 W, + 8,25 (1,52 (sin(211,5) - 2.1,5. W,)) = 0.87951703 W3: W2+0, 25(6.70) (5.16(24.28) -2.1.75. W2) = 0.59959108119 Wy 2 W3+0, 25((2)2(sih(2.2)-2.2.W3)) = 0,402393157186. 9d. y(1 41052-005te fry 1(e)2 & (shill-rey) 1+(t,4)-+(t,7)/- e (sinze-2ty)- e (sinze-zery) = {Zey, + Zeyl = |4, -42/2€ 400 - C221 = 4 , 14262. y1(e)= -4- cos(2)+(0s(2e)+&syb)(2c) 4 (9)2 (2e2-3) cos(2e)-4 & sh(2e) +3(4+cos 2)) £4 200 4 100 max & E21, So M2 44(1)27,531 1 675 1.5 1,25 Actalerrar 0.10747343 0.136893 0.13841869 0.12729394.

error band 0.401386 (.50362 4.491661 12,613989 (y(ti)-wi) = hm (e(ti-a)-1)2 0.25.7.571 (4(0.25)) = 0.404386. (127... (0.25) (7.531) (e 4(05)) - 1.50362

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