28.10. 20

8.2.16. $\int \int 9-x^{2} dx = \int x=\sin t = 1-x^{2}-1-\sin^{2}t = \cos^{2}t \int = 1-x^{2}$ = [x=3s:ut=5g-x=g-(3s:nt) = 9-9 sin t= 3(1-1:n t) = 3cost dx = d(3 sint) = (3 sint) dt = 3 cost dt] = [for -(3 sint) 3 cost dt = = 5 5000 1 3 contdt = 5 3 cont 3 cont et = 95 confet = = 95 1+0052+ dt = 25 (1+0052+)d+ = 2 (5d+ 5052+d+)= = = 2 (++ = sinet) + c = 2 (avisin 3 + 2 sin(2 avisin 3)) + c = 2 MISHANIAN STATE -= 2 avesin 3 + 2 59-x2+C 8217 JXXX+1 = [=>x+1=+2=> 8217 JXXX+1 = [=>x=+2-1=>dx=d(+2-1)=2+d+]= = S (+2-1) 5 ft = S + (+2-1) = 25 +2-1 = 2 2 en 1 + 1 + 1 + C = = Cn | JX+2-1 + e 8.2.18. Sx52-x dx = [2-x=12=>t=52-x] 8.2.18. Sx52-x dx = [x=2-t2=>dx=-2+d+]=5(2-12)5= (-2+3+)= = [(2-t')+(-2)+d+= [(261-2)+-+++(-1+)d+= [-4+2+1)d+2 = -45 t'dt +25 t'dt = - 4 3 +2 5 + c = 3 (52-x) 5- 3 (52-x) 1 5 TX dx = [x=t =>t=Jx] = 5 Fatdt = 5 12+8+ 11-16 = 25 12+16 = 25 (+216)-16 dt=25 (+216 dt=25dt-165+2-16)= = 2 /4-16 = arctg =)+c = 2t - surctg = + C = 25x - savetg = + c 3.221 Sxsinxdx = [J'=sinx=> J=-wsx] = x(-wsx)-S(-wsr).1dx -- x cos x + 5 cos x dx =- x cos x + 11 nx + C 8.7.22 S(2x-1) e3x dx = [1=2x.1=) u=2 5'=e''=> J= Se'' dx] = [dk=1(3x)=3dx+)d=2d4 P Jets jet = 5 Jett= get +C7