59 So Stilly CSXII + C32x dxdy N= S(x,y) Y & [G,1] 1 XX F [ Sin'(x), \$ ] } X= 51/2 (x) Y=SinX D=S(x,y) |XG[0, \$] /YE[0, sinx] } SE Sinx COSX (T+03x dydx = SE 51/mx MX THOSX dx V= Hreezx dv= -2 resxsinx dx - = 20= 51/x (3x dx

 $-\frac{1}{2}\int_{2}^{1}\sqrt{1}\,dv = -\frac{1}{2}\left(\frac{2}{3}\left(1\right)^{3/2} - \frac{2}{3}\left(2\right)^{3/2}\right) = \frac{2\sqrt{2}}{3} - \frac{1}{3} = 2\sqrt{2} - \frac{1}{3}$