MD. Nasis sadnan chowdhury ID: 22-96/18-1

Section: 0

8.8 J 5 5 2 1 dydx

0 = x < 2 - x < y < 6

 $\chi = \frac{2-0}{4} = 1$ 0,1,2

FOR x=0, $k_1=\frac{\sqrt{x}+x}{\sqrt{x}}=0$ $y_n=0$

 $I(0,0) = \frac{0}{2} [f(0,0) + 2f(0,0) + f(0,0)]$

Sorc ==1, kz = \(\frac{\sqrt{1}}{1} = 1 \) \(\frac{1}{2} = \frac{1}{3} = 1 \)

I(1,1) = = [f(1,1)+2f(1,2)+f(1,3)] = 1 x [0.707+0.89470,316] ≥0.3585

 $for, x=2, k_3 = \frac{\sqrt{2}+2}{2} = 1.707$ TR = 2, 3,707, 5.414

$$\frac{\Gamma(2,1.707)}{2} = \frac{1.707}{2} \left[f(2,2) + 2f(2,3.707) + f(2,5.414) \right]$$

$$= \frac{1.707}{2} \left(0.354 + 0.475 + 0.0173 \right)$$

$$= 0.855$$

$$\int_{0}^{2} \int_{-\pi}^{\sqrt{\chi^{2}+y^{2}}} \frac{1}{dydx} = \frac{1}{2} \times (0+2 \times (0.9585)) + 0.855$$

$$= 1.386$$

