Kop Quiz 10-2206820352-Jun Maxwell Tonaya

16. So Nis xy dx dy

Inner meral uzartl du= 24xdx

f = 1 | x=15 y 5,16 x du = 4 5,6 (u) - 2 du

= 4 [254].

= 7 [2.4-2.1]

= 34

Outer $\int_{0}^{1} 3y \, dy = \left[\frac{3}{2}y^{2}\right]_{0}^{1}$

= 3.1-0

= 3

20. f(x,y) = 24 = 2

Stitik titik pada bidang xy yang dibatasi x=2, x=3, y=0,

dan y=x2-2x+1 $y = (x-1)^2$

26×63 0 = 4 = (x-1)2

V= 3 1 (x-1)2 dy dx

Inner

 $\int_{0}^{(x-1)^{2}} \frac{1}{(x-1)^{2}} dy = \frac{1}{(x-1)^{2}} \int_{0}^{(x-1)^{2}} \frac{1}{2y} dy$ = 1 (x-1)2 (y2) (x-1)2

2 1 (((x-1)2)2 - 0)

= (x-1)2

Outer

 $\int_{1}^{3} (x-1)^{2} dx = \left[\frac{1}{3}(x-1)^{3}\right]_{1}^{3}$

= = = 3 (3-1)3 - 3 (ca 2-1)3

 $\frac{2}{3} - \frac{1}{3} = \frac{7}{3}$

30. III f(x,4,2) dV, f(x,4,2)=4x

8x +4y+2z -24=0 4x+2y+Z -12=0

1 2=12-4x-24

24= 12-4x 4=6-2x OLXLB 0 6 4 6 - 2x

0 CZ (12-4x-Zy

JJ f(x, 4, 2) dV = 189

12-4x-24 = [45 4x2]12-4x-24 Inner-4x-24

= 48x - 16x2 - 2xy

 $\int_{0}^{6-2x} 48x - 16x^{2} - 2xy \, dy = \left[48xy - 16x^{2}y - xy^{2}\right]_{0}^{6-2x}$ Middle

= 288x - 96x2 - 96x2+32x3 - 3636x+242-45

= 252x -168x2 + 28x3

 $\int_{0.00}^{3} 252x - 168x^{2} + 28x^{3} dx = \left[126x^{2} - 56x^{3} + 7x^{4}\right]_{0}^{3}$

= 1134-1512+567

Sketsa S



