$\int_{0}^{3} \tau \cdot dr + \int_{0}^{3} 2 \sin \theta \int_{0}^{2} r^{2} \cdot dr = \left(\frac{\gamma^{2} + 2 \sin \theta}{2}\right) \left|\frac{r^{2}}{2}\right|^{3}$

$$\frac{\left(\frac{r^{2}8}{2} + \frac{0}{3}\sin\theta r^{3}\right)^{\frac{3}{2}}}{\left(\frac{3}{2} + \frac{1}{3}\sin\theta (3)^{\frac{1}{2}} - 0\right)} = \frac{98}{2} + \frac{1}{2}\sin\theta (3)^{\frac{1}{2}} - 0$$

$$\frac{-98}{2} + \frac{1}{2}\sin\theta (3)^{\frac{1}{2}} - \frac{98}{2} + \frac{1}{2}\sin\theta (3)^{\frac{1}{2}} - 0$$

$$\frac{-98}{2} + \frac{1}{2}\sin\theta (3)^{\frac{1}{2}} + \frac{1}{2}\sin\theta (3)^{\frac{1}{2}} - \frac{98}{2} + \frac{1}{2}\sin\theta (3)^{\frac{1}{2}} - \frac{1}{2}\sin\theta (3)^{\frac{1}{$$

Qs)
$$\int \frac{x \cos y}{f} dx - \frac{y \sin(x)}{g} dy$$
, square $\left[(0,0) \left(\frac{x}{2},0 \right), \left(\frac{x}{2}, \frac{x}{2} \right), \left(\frac{x}{2}, \frac{x}{2} \right) \right] = \frac{9\pi}{2}$

·
$$\chi \int T/2 \sin y \cdot dy - \frac{1}{2} \cos \chi \int y \cdot dy$$

$$\frac{1}{8}\int_{0}^{\pi/2} |x|(\alpha) \cdot d\alpha = \int x \cdot dx \rightarrow \pm \frac{\pi^{2}}{8} \sin x - \frac{x^{2}}{2} |x|$$

$$= + \overline{\Lambda}^{2} \left[\sin(\overline{\Lambda}) - \sin(\overline{\nu}) \right] - \left[\overline{\Lambda}^{2} \frac{1}{8} - \overline{\nu} \right]$$

$$\Rightarrow \frac{7}{8} + \frac{\pi^2}{8} - \frac{\pi^2}{8} = 0$$

$$\frac{\partial f}{\partial y} = \tan^2(x)(1) \int_{0}^{2\pi} \int_{0}^{1} (\sec^2x - \tan^2x) r dr d\theta$$

$$\frac{\partial f}{\partial y} = \sec^2(x) \int_{0}^{2\pi} \int_{0}^{1} (\sec^2x - \tan^2x) r dr d\theta$$

$$\int_{0}^{2\pi} \int_{0}^{1} \gamma dr d\theta \rightarrow \frac{r^{2}}{2} \Big|_{0}^{1} = 1$$

$$\frac{\partial f}{\partial y} = 0 - 17$$

$$\frac{\partial g}{\partial x} = 1$$

$$\frac{\partial f}{\partial y} = 0 + 2y$$

$$\frac{\partial f}{\partial x} = 0 + 2x$$

$$\frac{\partial f}{\partial x} = 0 +$$

$$\left| \frac{1}{4} \chi^2 - 4\chi \right|^2 = \left| \frac{1}{4} (2)^2 - 4(2) - 0 \right|$$

$$\frac{\partial f}{\partial y} = \chi^{2}$$

$$\int_{0}^{\pi/2} \int_{0}^{y} \frac{1}{-y^{2} - \chi^{2}} \cdot \gamma d\gamma d\theta$$

$$\frac{\partial f}{\partial y} = y^{2}$$

$$\int_{0}^{\pi/2} \int_{0}^{y} \frac{1}{-y^{2} + \chi^{2}} = r^{2}$$

$$\begin{array}{c|c}
-\frac{7}{3}4 & \frac{1}{9} & \Rightarrow -\frac{1}{9}(4)^{34} - 0 \Rightarrow -\frac{34}{9} & \frac{256}{9} \\
-\frac{256}{3}4 & \frac{7}{9} & \Rightarrow -\frac{1}{9}(4)^{34} - 0 \Rightarrow -\frac{34}{9} & \frac{256}{9} \\
-\frac{256}{3}4 & \frac{7}{9} & \Rightarrow -\frac{1}{9}(4)^{34} - 0 \Rightarrow \frac{256}{9} & \Rightarrow 32\pi
\end{array}$$