$$39$$
 $\int_{0}^{2} \int_{0}^{\sqrt{2}x-\chi^{2}} \sqrt{\chi^{2}+y^{2}} dy d\chi$. $dA = dy d\chi$. $dA = r dr dQ$.

Reescriba en térninos de r 4 a.

$$\sqrt{\chi^2 + y^2} = \sqrt{r^2} = r.$$

$$\sqrt{2\chi - \chi^2} = \sqrt{2r \omega s \theta - r^2 \cos^2 \theta}$$

SPMI Circulo de radio 1 centrado en (1,0).

$$y^2 = 2\chi - \chi^2 \quad 6$$

$$\begin{array}{c|c}
\sqrt{2x-x^2} & = y \\
0 & = 0 \\
0 & \leq r \leq 2\cos\theta. \\
0 & \leq \pi / 2
\end{array}$$

0 SO S To /2.

$$y = \sqrt{2x - x^2}$$

$$y^2 = 2x - x^2$$

$$y^{2} = 2x - \chi^{2} \quad 6 \quad y^{2} + \chi^{2} - 2x + 1 = 1$$

$$\int \sqrt{2x - \chi^{2}} = y \quad y^{2} + (x - 1)^{2} = 0$$

$$\chi(2 - \chi) = 0$$

$$\chi(2 - \chi) = 0$$

$$\chi = 0 \quad \chi = 2.$$

r25in20 = 2rcos0 - r2cos20. r2 = 2r650. r = 20050.

$$r = 2\cos\theta$$

$$r(0) = 2. \qquad r(\overline{11}) = 0.$$

$$r(R) = -2.$$

$$0 \le \theta \le \pi/2 \qquad 0 \le r \le 2\cos\theta \qquad \sqrt{\chi^2 + y^2} = r$$

$$\int_0^{\pi/2} \int_0^{2\cos\theta} r^2 dr d\theta = \int_0^{\pi/2} \frac{r^3}{3} \int_0^{2\cos\theta} d\theta.$$

$$\left((-5in^2\theta)\cos\theta\right) = \frac{8}{3} \int_0^{\pi/2} \cos^3\theta \,d\theta.$$

Son
$$\int_{0}^{1} \int_{3}^{9} Se^{x^{2}} dx dy$$
. = $\int_{0}^{1} Se^{x^{2}} dA$.

So $\int_{0}^{1} \int_{3\sqrt{y}}^{4} Ge^{x^{4}} dx dy$.

So $\int_{0}^{1} \int_{3\sqrt{y}}^{4} Ge^{x^{4}} dx dy$.

Solve $\int_{0}^{1} \int_{3\sqrt{y}}^{4} Ge^{x^{4}} dx dy$.

 $\int_{0}^{1} \int_{0}^{1} \int_{0}^{1} Ge^{x^{4}} dA$.

 $\int_{0}^{1} \int_{0}^{1} \int_{0}^{1} Ge^{x^{4}} dA$.

Solve $\int_{0}^{1} \int_{0}^{1} \int_{0}^{1} Ge^{x^{4}} dA$.

Solve $\int_{0}^{1} \int_{0}^{1} \int_{0}^{1} Ge^{x^{4}} dA$.

Solve $\int_{0}^{1} Ge^{x^{4}} dA$.

y = x/3.

$$V = \int_{0}^{\infty} \int_{0}^{\infty} \frac{1}{2} x dx = 0$$

$$V = \int_{0}^{\infty} \frac{1}{2} dx = 0$$

$$V = \int_{0}^{\infty} \int_{0}^{\infty} \frac{1}{2} dx + 2y dy dx$$

Sa
$$\int_{0}^{3} \int_{3y}^{3} Se^{x^{2}} dx dy$$
. = $\int_{0}^{3} Se^{x^{2}} dA$.
Sb $\int_{0}^{6y} \int_{3\sqrt{y}}^{4y} (6e^{x^{4}} dx dy)$.
 $0 \le y \le 64$ $y'''_{3} \le x \le 4$.
 $y = x^{3}$ $y = x^{3}$

 $\int_{0}^{4} x^{3/2} x^{1/L} \sin x \, dx = \int_{0}^{4} x^{2} \sin x \, dx$ $\int_{0}^{4} x^{3/2} x^{1/L} \sin x \, dx = \int_{0}^{4} x^{2} \sin x \, dx$

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