ops3 using steen's theorem evaluate

$$\oint (x^2y) dx + (xy^2) dy, \quad dachvise boundary of$$
e the region of the region  $0 \le y \le \sqrt{2-x^2}$ 

$$\iint \frac{dx}{dx} = \frac{dx}{dy} \quad dA = \frac{1}{2}$$

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We convert to polar.

$$x^2 + y^2 = y^2$$

$$0 \le y \le (9^{-x^2} - x^2 + y^2 = 9 - x^{-3})$$
We then have our boundaries.
$$0 \le r \le 3 \quad \text{and} \quad 0 \le 0 \le 3$$

$$\int 2xy - x^2 dA$$

$$\int 3 (r \cos x - \sin x) - r^2 \cos^2 x dr dx = \frac{1}{2}$$

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$$\int \frac{81}{2} \cos x - \sin x - \cos^2 x dx = \frac{1}{2}$$

$$\int \frac{81}{2} \sin(2x) - \frac{1}{2}(x + \sin x) \cos x dx = \frac{1}{2}$$

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$$\int \frac{81}{2} \cos(x) + \frac{1}{2} \cos$$