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Kotate the region enclosed by x^2 - y^2 = a^2, x = a + h and x = a + h and x^2 - y^2 = a^2.

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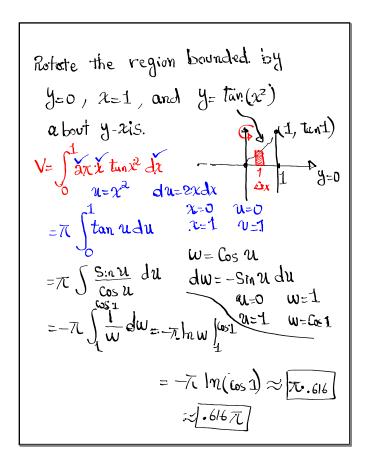
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Draw the region enclosed by a square with vertices oil

(i,0), (o,1), (-i,0), (0,-i)

Cross-Sections I.

$$x_{4}x_{1}$$
 $x_{4}x_{2}$
 x_{2}
 $x_{4}x_{2}$

Cross-Sections are

Semicircles.

 $x_{4}x_{1}$
 $x_{4}x$

Sind fave for
$$f(x) = x \sin x^2$$
 over $[0,10]$

$$f(x) = \frac{1}{b-a} \int_0^b f(x) dx$$

$$= \frac{1}{10} \int_0^{10} x \sin x^2 dx \quad \text{i.i.} x^2$$

$$= \frac{1}{10} \int_0^{100} x \sin x^2 dx \quad \text{i.i.} x^2$$

$$= \frac{1}{10} \int_0^{100} \sin u \, du \quad du = x dx$$

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