Agenda: 1/25/16 lesson 94

Axes of nev displaced Solids of Revolution:

A Handows Calendon

So far Only done rotation about the x and y axis

EX. 94.1 let R be the region bounded by the Coordinate axes and the lines y=x and x=5. Find the volume of the solid formed by rotating

Volume =
$$\pi$$
 (5-4) dy = π [26y-5y²+3] 5 = $\frac{5}{125\pi}$

Xージェレ revained about y=2. Find the volume of the solid X=3, y=2, and the y-axis R is competety enclosed by The region A is Fx 94.3

Volume =
$$\pi \int_{x=0}^{x=4} (2-\sqrt{x})^2 dx$$

= $\pi \int_{0} (4-4(x+x))^2 dx$
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Ex. 94.4 Same region in 94.3 obtated about y=3. Find the volume of the solid.

Ex. 94.4 Same region in 94.3 obtated about
$$3 = 10^{100}$$
 [10^{10}] where 10^{10} [10^{10}] 10^{10}]