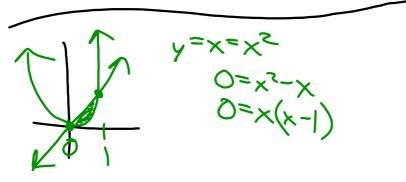
3.3 Washer Method

V=
$$\int_{A(x)} A(x) dx$$

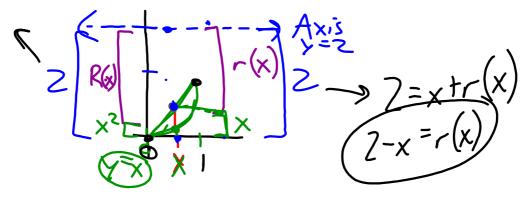
$$V = \int_{A(x)} R(x)^{2} - \pi [r(x)]^{2} dx$$

$$V = \int_{A(x)} R(x)^{2} - [r(x)]^{2} dx$$

stresolid Find the volume obtained by rotating He triangle with vertices (0,0), (2,2) (2,4) ground the x-axis. $V=\frac{1}{3}\pi(4)^{2}(2)$ - 3 T(2) (2) Find the volume of the solid of revolution obtained by rotations the region bounded by $y = x^{and}y = x^{2}$ around the line y = 2.



$$R(x) = 2 - x^{2}$$
 $R(x) + x^{2} = 2$



$$V = \mu \left(\left(\left(S - x_{3} \right)^{2} - \left(S - x_{3} \right)^{2} \right) dx$$

\\

>

Example) Find the volume of the solid of revolution obtained by rotating the region bounded by $y=0, x=1, y=\sqrt{x}$ around the line x=-1.

