

y = 2x  $y = x^{2}$ Revolve around x-axis  $\pi \int_{a} \left[ \left( f_{3}^{2} \right) - \left( f_{i} \right)^{2} \right] dx$  $\pi \int \left[ (2X)^2 - (X^2)^2 \right] dx$  $= \frac{64\pi}{15}$  Units<sup>3</sup>  $y = \chi^{2} + 2 \quad y = \sqrt{-\chi + 2}$ y=x+8 around x-axis  $\prod \int \left[ (x+8)^2 - (\sqrt{-x+a})^2 \right] dx$ +  $\pi \int_{-\infty}^{3} \left[ (\chi + \epsilon)^{2} - (\chi^{2} + 2)^{2} \right] dx$ 

$$\begin{aligned} y &= \chi^{2} + 4 \quad y = 2\chi^{2} \quad \chi = 0 \\ \text{Dnly in 1st quad.} \\ &\times \text{Around } y - \alpha \chi \text{is.} \quad 0 \quad 0 \\ &= \chi^{2} + 4 \quad y = 2\chi^{2} \quad \chi^{2} \quad \chi^{3} \quad \chi^{3} \quad \chi^{3} \\ &= \chi^{2} + 4 \quad y = 2\chi^{2} \quad \chi^{2} \quad \chi^{3} \quad \chi^{3} \quad \chi^{3} \\ &= \sqrt{y} - 7 = \sqrt{\chi^{2}} \quad \sqrt{y} \quad \chi^{2} \quad \chi^{3} \quad \chi^{3}$$

