

$$y = x^{3} \quad y = 1 \quad x = 2$$

around y-axis
Red. is vertical

$$y = x^{3} \quad y = 1$$

$$2\pi \int_{a}^{b} r(f-q) dx$$

$$2\pi \int_{a}^{2} x \quad (x^{2}-1) dx$$

$$= \frac{y}{2}\pi \quad \text{units}^{3}$$

$$G_{0} \text{ around } x = 7$$

$$2\pi \int_{1}^{2} (7-x)(x^{3}-1) dx$$

$$R-L \quad \text{Top-Battom}$$

$$\begin{array}{c} y = x^{2} + J \quad y = 1 \quad X = 3 \\ around \quad x - axis \\ \sqrt{y - 1} = \sqrt{x^{2}} \\ \frac{1}{x}\sqrt{y - 1} = x \quad x = 3 \\ 2\pi \int_{-1}^{10} y \quad (3 - \sqrt{y - 1}) dy \\ fround \quad the lim \quad y = -4 \\ 2\pi \int_{-1}^{\infty} (y - 4) \quad (3 - \sqrt{y - 1}) dy \\ T = B \quad R - L \end{array}$$