

$$\int_{0}^{2} \pi (x+1)^{2} dx$$

$$= \pi \int_{0}^{2} (x+1)^{2} dx$$

$$= \pi \int_{0}^{2} (x^{2}+2x+1) dx$$

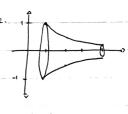
$$= \pi \left[ \frac{1}{3} x^{3} + x^{2} + x \right]_{0}^{2}$$

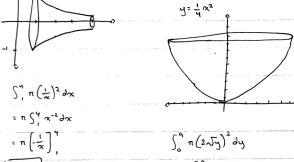
$$\int_{2}^{4} \pi \left( \sqrt{25 - x^{2}} \right) dx$$

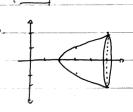
$$= \pi \int_{2}^{4} \left( 25 - x^{2} \right) dx$$

$$= \pi \left[ 25x - \frac{1}{3}x^{3} \right]_{2}^{4}$$

$$= \frac{94\pi}{3}$$









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5. x=22y

= 5, 1 (1x-1)2 dx = 7 5 (x-1) dx

$$= \pi \left[ \frac{1}{2} x^2 - x \right]^{\frac{1}{2}}$$

= 8n