



$$V = \int_{0}^{3} \pi \left(x^{4} + 10x^{2} + 25 \right) dx = \pi \int_{0}^{3} x^{4} + 10x^{2} + 25 dx$$

c)
$$v = \pi \int_{0}^{3} x^{4} + 10x^{2} + 75 dx$$

$$= \pi \left[\frac{x^{5}}{5} + 10 \frac{x^{3}}{3} + 25 \times \right]_{0}^{3} = \pi \left[(0) - \left(\frac{3^{5}}{5} + \frac{10 \cdot 3^{5}}{3} + \frac{25(3)}{3} \right) \right]$$

= 10681/5.

