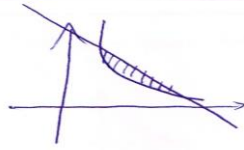


$$\frac{2.78}{4}$$

$$\begin{cases} 2x+y=8 \\ xy=6 \end{cases}$$

$$(8-2x)x=6 \rightarrow x^2-4x+3=0 \\ x=3, 1$$



$$V = \pi \int_1^3 \left[ (8-2x)^2 - \frac{36}{x^2} \right] dx = \left[ 64x - 16x^2 + \frac{4x^3}{3} + \frac{36}{x} \right] \pi \Big|_1^3 = \\ = \left[ (192 - 144 + 36 + 12) - (64 - 16 + \frac{4}{3} + 36) \right] \pi = 10\frac{2}{3} \pi$$