Rio Keurewongs
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Date

1)

$$hhh\,leuv1 = \quad \begin{aligned} &x+2-1 = x-1 \\ &2x+1 = x+1 \end{aligned}$$

2)

$$V = \int_1^4 \pi|x-2|\,dx = \int_1^4 \pi|x-2|\,dx = \int_1^4 (\pi x - 2\pi)\,dx$$

$$= \left[\frac{1}{2}\pi x^2 - 2\pi x\right]_1^4 = (8\pi - 2\pi) - \left(\frac{1}{2}\pi - 2\pi\right)$$

$$= 6\pi - \left(+\frac{3}{2}\pi\right)$$

$$= \frac{15}{2}\pi \cdot 6\pi -$$

$$X_1 = \int_2^4 \pi|x-2|\,dx = \int_2^4 \pi(x-2)\,dx = \int_2^4 (\pi x - 2\pi)\,dx$$

$$= \left[\frac{1}{2}\pi x^2 - 2\pi x\right]_2^4 = (8\pi - 8\pi) - (2\pi - 4\pi)$$

$$= 8\pi + 2\pi$$

$$= 10\pi$$

$$V_2 = \int_1^2 \pi|x-2|\,dx = \int_1^2 \pi(2-x) = \int_1^2 (2\pi - \pi x)\,dx$$

$$= \left[2\pi x - \frac{1}{2}\pi x^2\right]_1^2 = (4\pi - 2\pi) - \left(2\pi - \frac{1}{2}\pi\right)$$

$$= 2\pi - \frac{3}{2}\pi$$

$$= \frac{1}{3}\pi$$