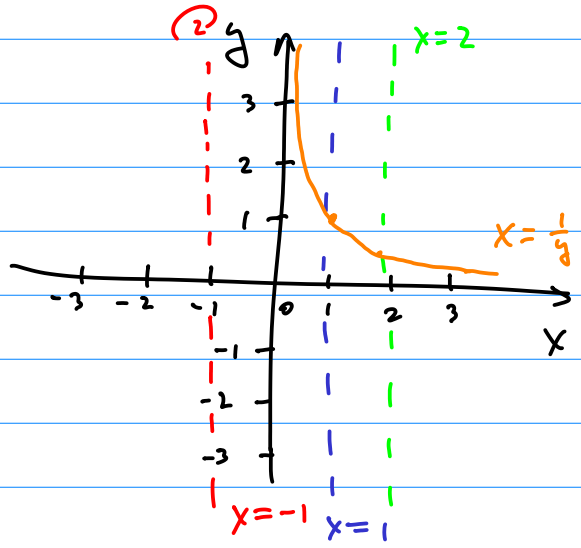
$xy = 1$, $y = 0$, $x = 1$, $x = 2$ about $x = -1$

↳ $x = \frac{1}{y}$



$$V = \pi \int_0^1 \left[\left(\frac{1}{y} + 1 \right)^2 - (2)^2 \right] dy$$

$$V = \pi \int_0^1 \left(\frac{1}{y^2} + \frac{2}{y} - 3 \right) dy$$

$$V = \pi \left[\frac{1}{y} + 2\ln y - 3y \right]_0^1$$

???

∴ Seems VERY wrong?