

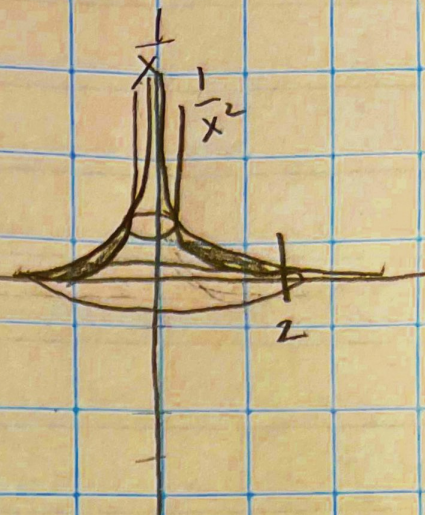
$[1, 2]$

b

$$y = \frac{1}{x}$$

$$y = \frac{1}{x^2}$$

$$x = 2$$



$$\text{I} \quad 2\pi \int_1^2 x \left( \frac{1}{x} - \frac{1}{x^2} \right) dx$$

$$\text{II} \quad \frac{x \cdot y = \frac{1}{x} \cdot x}{\frac{1}{y}}$$

$$\frac{x^2 \cdot y = \frac{1}{x^2} \cdot x^2}{\frac{1}{y}}$$

$$\sqrt{x^2} = \sqrt{\frac{1}{y}}$$

$$x = \frac{1}{\sqrt{y}}$$

$$x = \sqrt{\frac{1}{y}}$$

$$\pi \int \left( \frac{1}{y} \right)^2 - \left( \sqrt{\frac{1}{y}} \right)^2 dy$$

