

$$R(y)+2y=4$$

 $R(y)=4-2y$

$$V = \int_{0}^{1} \left[(4-2y)^{2} - (2)^{2} \right] dy$$

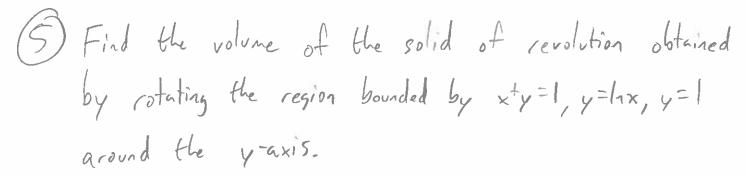
$$= \int_{0}^{1} \left[(16-16y+4y^{2}-4) \right] dy$$

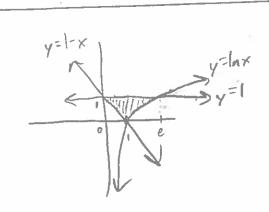
$$= \int_{0}^{1} \left[(12-16y+4y^{2}) \right] dy$$

$$= \int_{0}^{1} \left[(12-8+\frac{4}{3}) - (0) \right]$$

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$$V = \pi \int_{0}^{1} \left(e^{y} \right)^{2} - \left[1 - y \right]^{2} dy$$

$$= \pi \int_{0}^{1} \left(e^{2y} - \left(1 - 2y + y^{2} \right) \right) dy$$

$$= \pi \int_{0}^{1} \left(e^{2y} - \left(1 + 2y - y^{2} \right) dy$$

$$= \pi \left[\frac{1}{2} e^{2y} - y + y^{2} - \frac{1}{3} y^{3} \right]_{0}^{1}$$

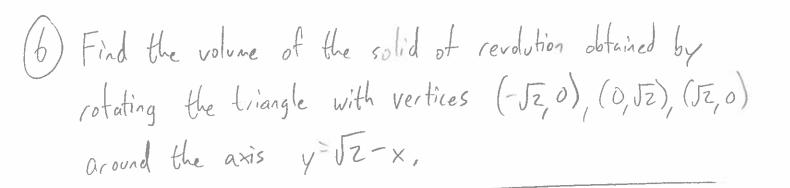
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Sine
$$\begin{array}{c}
A = X \\
A$$

$$V = \pi \int_{0}^{2} [(x)^{2} - (0)^{2}] dx$$

$$= \pi \int_{0}^{2} x^{2} dx$$

$$= \frac{1}{3} \pi [x^{3}]_{0}^{2}$$

$$= \left[\frac{8}{3} \pi \right]_{1}^{2}$$