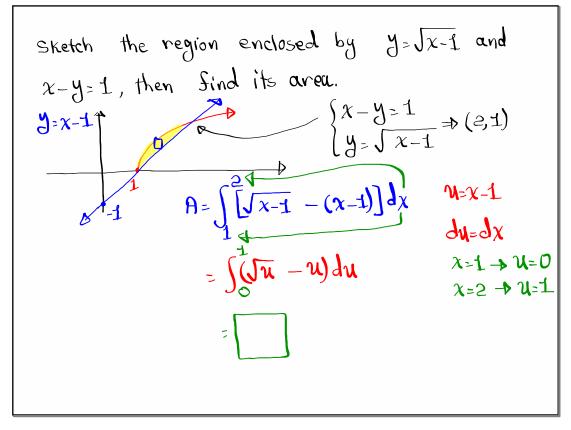
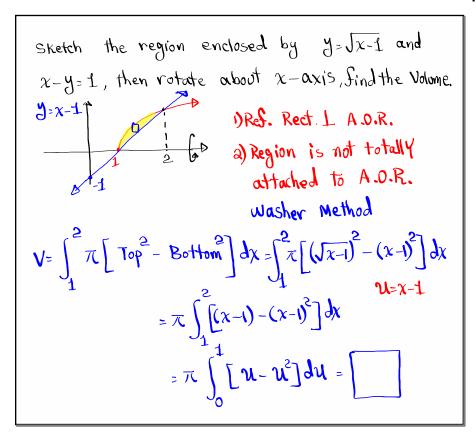


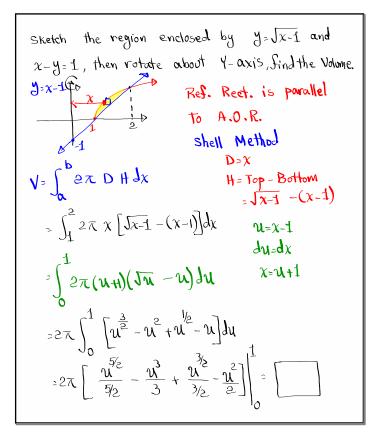
Feb 19-8:47 AM

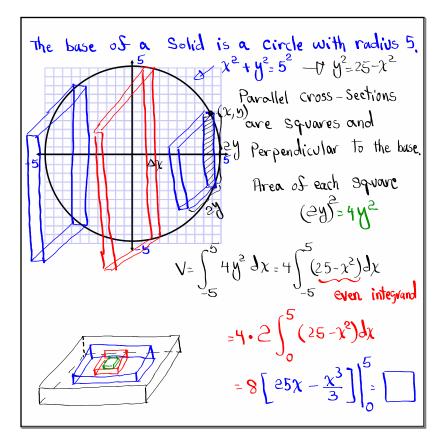


May 28-8:45 AM

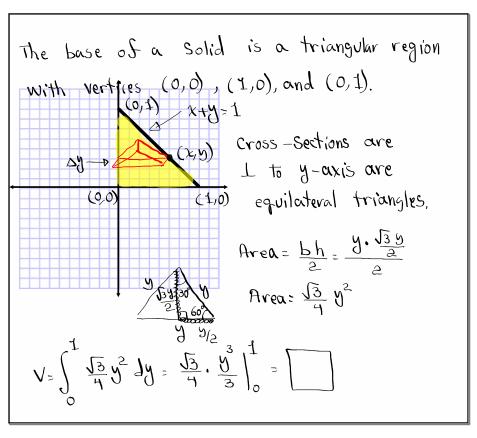


May 28-8:45 AM





May 28-9:03 AM



Find fore for 
$$f(x) = Sec^2x tan^3x$$
 on  $[0, \frac{\pi}{4}]$ .

$$fave = \frac{1}{\frac{\pi}{4} - 0} \int_{0}^{b} f(x) dx$$

$$fave = \frac{1}{\frac{\pi}{4} - 0} \int_{0}^{\frac{\pi}{4}} \frac{d}{dx} tan^3x dx$$

$$= \frac{4}{\pi} \int_{0}^{1} u^3 du \qquad Ju = Sec^2x dx$$

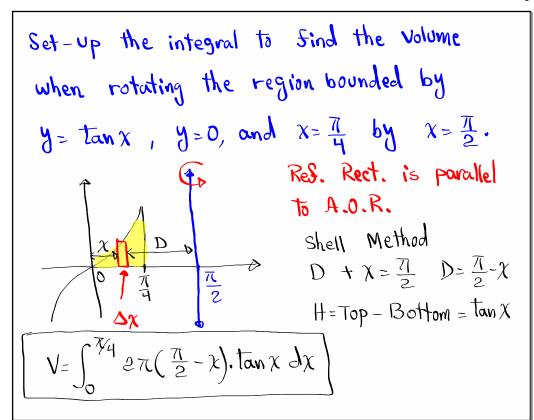
$$= \frac{4}{\pi} \cdot \frac{u^4}{4} \Big|_{0}^{1} = \frac{1}{2\pi} \cdot \frac{1}{4} \cdot u = 1$$

May 28-9:23 AM

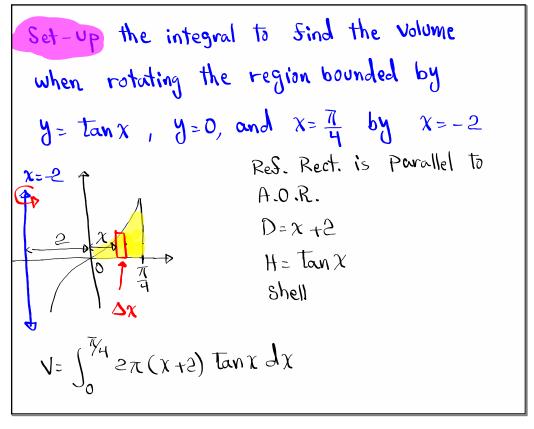
find fore for 
$$f(x) = \frac{2x}{(1+x^2)^2}$$
 on  $[0,2]$ .

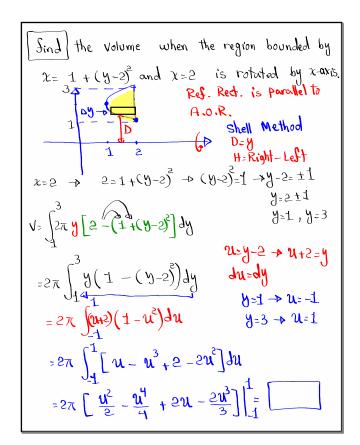
$$fave = \frac{1}{2-0} \int_{0}^{2x} \frac{2x}{(1+x^2)^2} dx$$

$$= \frac{1}{2} \int_{1}^{5} \frac{1}{x^2} dx$$



May 28-9:34 AM





May 28-9:43 AM