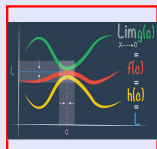


Math 261
Fall 2023
Lecture 55



Feb 19-8:47 AM

Consider the region bounded by $y = x^2$, $y = 0$, $x = 2$, and $x = 4$.

Rotate this by $x = 6$,
Find its volume

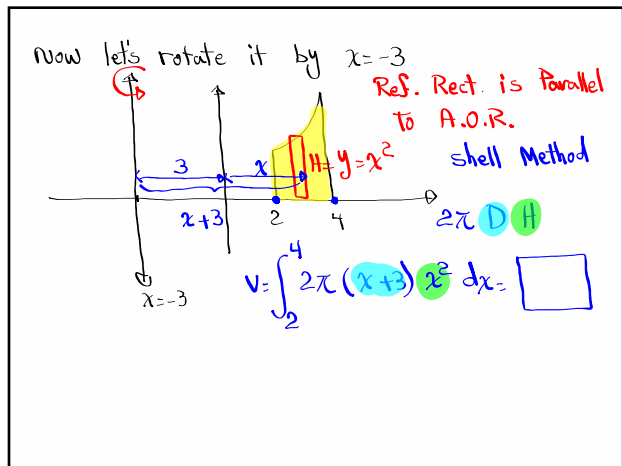
Ref. Rect $\perp$ x -axis $\Rightarrow dx$

Ref. Rect. is parallel to A.O.R.

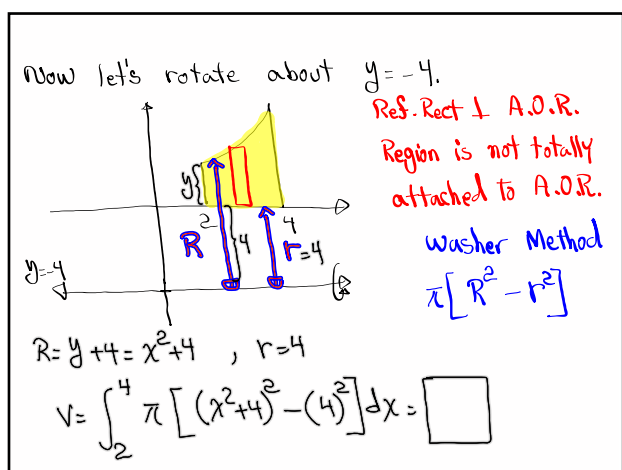
Shell Method $2\pi D H$

$V = \int_2^4 2\pi (6-x) x^2 dx = \boxed{}$

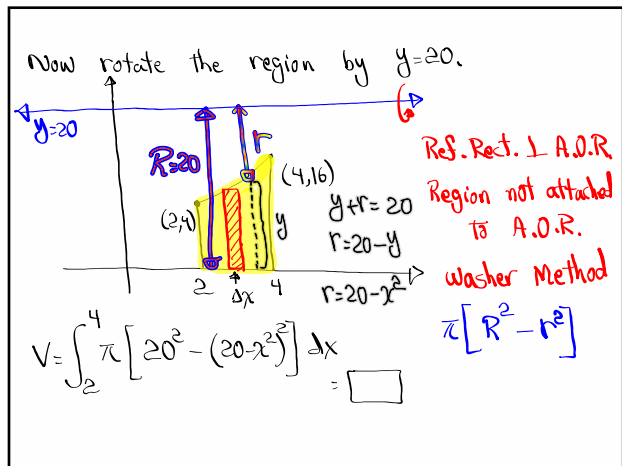
Dec 7-10:30 AM



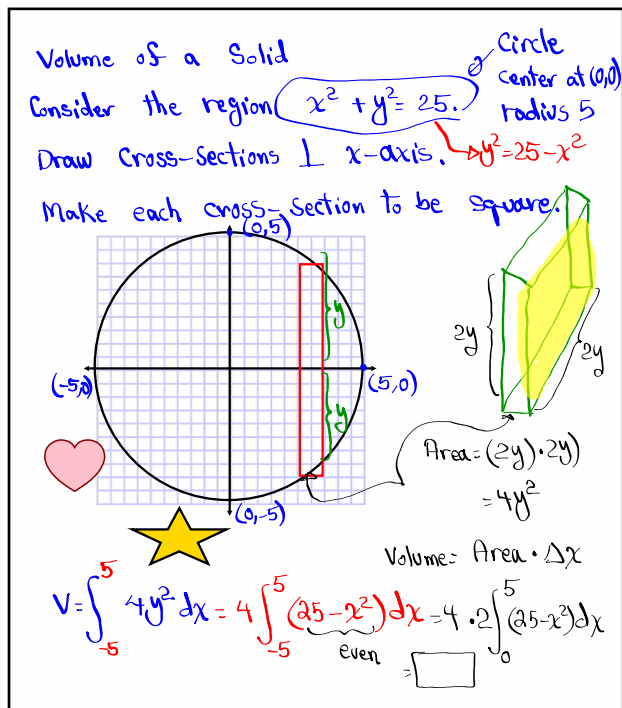
Dec 7-10:37 AM



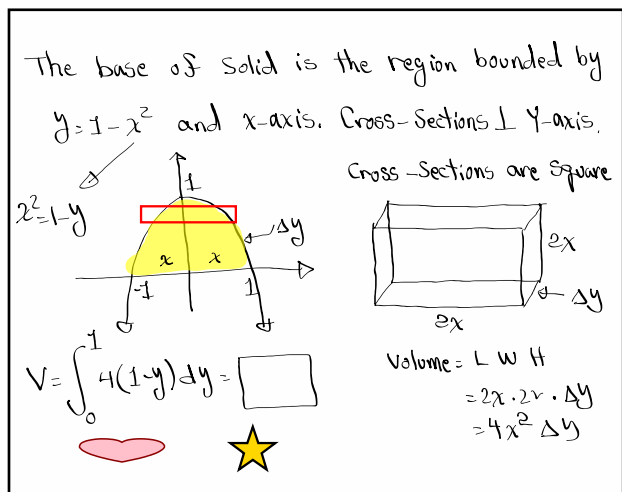
Dec 7-10:41 AM



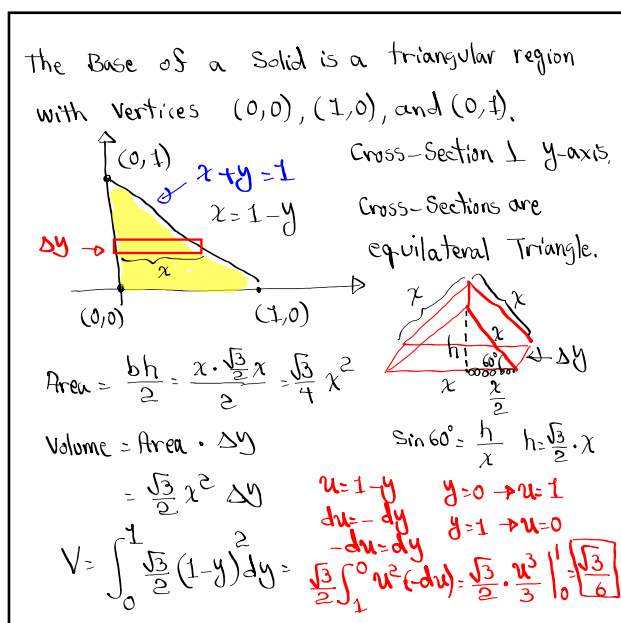
Dec 7-10:45 AM



Dec 7-10:56 AM



Dec 7-11:06 AM



Dec 7-11:13 AM