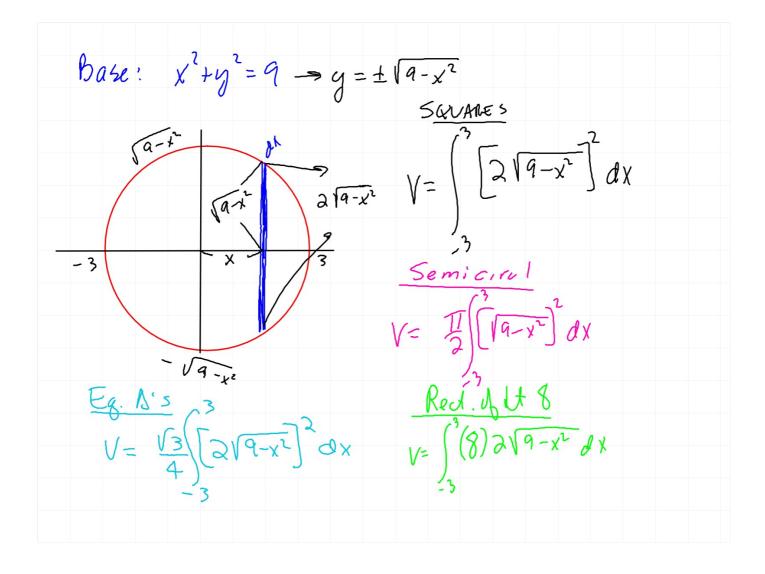
## Volumes of Solids with Known Cross Sections (Slicing) Squares (ectanglis of given ht 4 Semi circles Pquilateru A's Pquilateru A's



Base: 
$$y = 4x^{2}$$
 and  $y = x^{2} + 3$  (S: Square)
$$\frac{|\text{Sect}|}{4x^{2} = x^{2} + 3} = -1 \text{ a. } x = 1.$$

$$V = \left[ (x^{2} + 3) - 4x^{2} \right] = -1 \text{ a. } x = 9.600$$

$$V = \frac{|\text{T}|}{2} \left[ (x^{2} + 3) - 4x^{2} \right] = -3.770$$