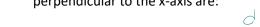
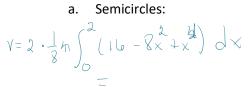
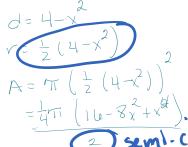
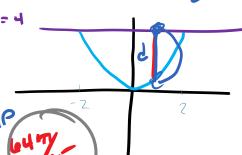
## 8.3 review opener

The base of a region between the line y=4 and the parabola  $y = x^2$ . The cross sections of the solid are perpendicular to the x-axis are:

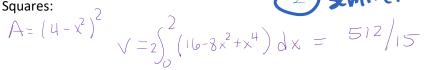


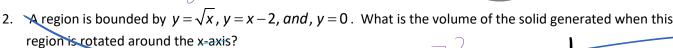


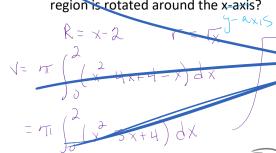


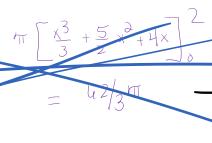


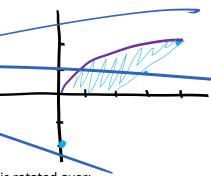
b. Squares:



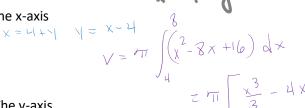


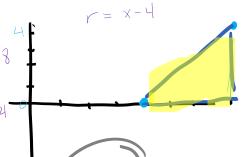






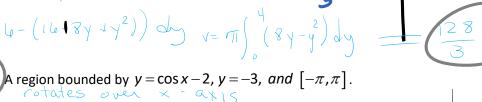
- A region is bounded by f(y) = 4 + y, and [0,4] Find the volume of the solid if it is rotated over:

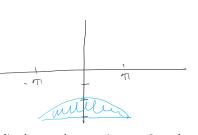


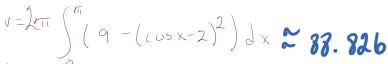


The y-axis









Find the volume of the solid that lies between planes perpendicular to the x-axis at x=2 and x=-2. The cross sections perpendicular to the x-axis between the planes are equilateral triangles whose bases run from y=0 to



