## Calculus with Analytic Geometry II

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## 1 Volume Worksheet

I. Find a formula for the pyramid of height h and width a as shown below.



II. Find the volume of the solid of revolution shown below.



III. Find the volume of the solid of revolution formed by taking the plane region bounded by  $y = \sqrt{x}$ , x = 1, x = 4, and the x-axis, and revolving that region around the y-axis.