

Name: _____

Date: _____

Pd. _____

2017

AP Calculus – Worksheet 7.3a – Cross-Sectional Volume – Show All Work to Receive Credit

Graph each solid in 3D and show the cross sections and find the volume of the solid.

1. The base of a solid is given by the area enclosed by $\frac{x^2}{25} + \frac{y^2}{9} = 1$.

a. The cross sections perpendicular to the x – axis are squares.

b. The cross sections perpendicular to the x – axis are equilateral triangles.

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2. The base of a solid is given by the area enclosed by $(x-2)^2 + y^2 = 9$.
- The cross sections perpendicular to the x -axis are squares.
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