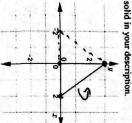
Date

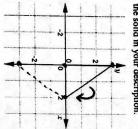
Name

1. Describe in detail the solid formed by rotating a right triangle with vertices at (0, 0), (2, 0), and (0, 3) about the vertical axis. Include the dimensions (height, length, width, radius, etc) of the



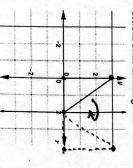
cone. h=3 r

Describe in detail the solid formed by rotating a right triangle with vertices at (0, 0), (2, 0), and (0, 3) about the horizontal axis. Include the dimensions (height, length, width, radius, etc) of the solid in your description.



points right

3. Imagine the solid formed by rotating the same right triangle about the line x = 2. Describe this solid in detail including its dimensions.



cylinder wil come "bowl"

in middle.

cyl h=3 r=2,

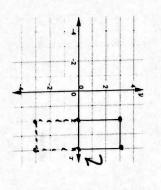
come "bowl" h=3 r=2,

points down

Mathematics Formative Assessment System Florida Center for Research in Science, Technology, Engineering, and Mathematics Copyright ©2014 - All Rights Reserved

2D Rotations to 3D Shapes

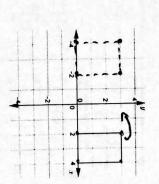
Describe in detail the solid formed by rotating a 2 x 3 rectangle with vertices (2, 0), (4, 0),
 (2, 3) and (4, 3) about the x-axis. Include the dimensions (height, length, width, radius, etc) of the solid in your description.



ylinder. K=2

flat base on left wright.

5. Describe in detail the solid formed by rotating a 2 x 3 rectangle with vertices (2, 0), (4, 0), (2, 3), and (4, 3) about the y-axis. Include the dimensions (height, length, width, radius, etc) of the solid in your description.



cylinde w/ hole in middle
aka donut!
large syl h=3, r=4
"hole" syl h=3, r=2
flat base on top + bottom

Mathematics Formative Assessment System Florida Center for Research in Science, Technology, Engineering, and Mathematics Copyright ©2014 - All Rights Reserved