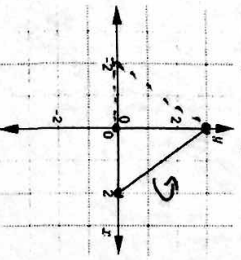


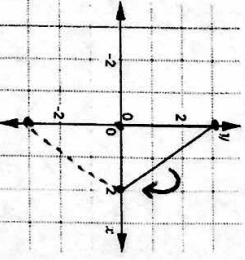
Name _____ Date _____

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 solid in your description.



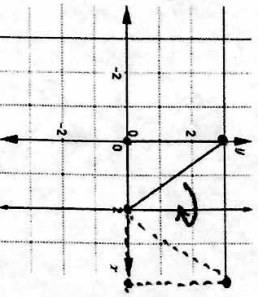
cone. $h=3$ $r=2$
points up

2. 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.



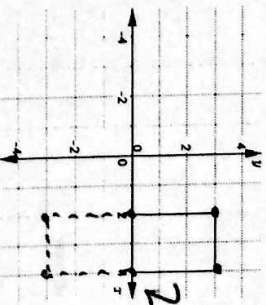
cone $h=2$ $r=3$
points right

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



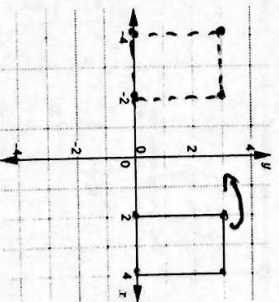
cylinder w/ cone "bowl"
in middle.
cyl $h=3$ $r=2$
cone "bowl" $h=3$ $r=2$,
points down

4. Describe in detail the solid formed by rotating a 2×3 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.



cylinder. $h=2$
 $r=3$
flat base on left & right.

5. Describe in detail the solid formed by rotating a 2×3 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.



cylinder w/ hole in middle
aka donut!
large cyl $h=3$, $r=4$
"hole" cyl $h=3$, $r=2$
flat base on top & bottom