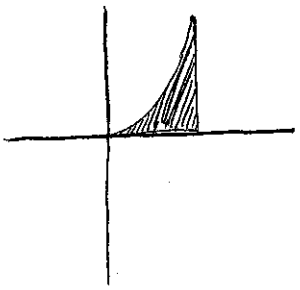
Worksheet
Volumes of solids—Disk and washer method
AP Calculus

Name_____

↙ using calculator

Find the volume of the solid formed by the equations:

1.) $y = x^2$, $y = 0$, $x = 2$, is rotated about:
   a.) the x-axis
   b.) the y-axis
   c.) the line $y = 4$
   d.) the line $x = 2$



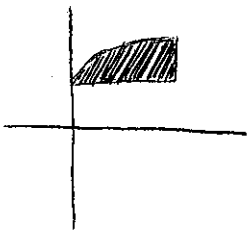
a.

b.

c.

d.

2.) $y = 1 + \sqrt{x}$, $y = 1$, $x = 4$ is rotated about:
   a.) the x-axis
   b.) the y-axis
   c.) the line $y = 3$
   d.) the line $x = 6$



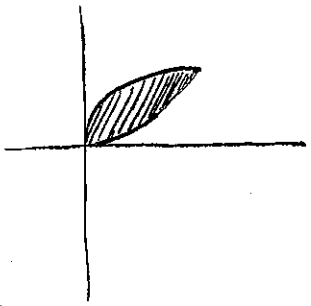
a.

b.

c.

d.

3.) $y = x^2$ and $y = \sqrt[3]{x}$ is rotated about:
   a.) the x-axis
   b.) the y-axis
   c.) the line $y = 1$



a.

b.

c.

d.