**Building Academic Excellence** 

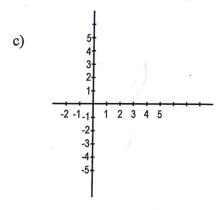
May 10-11 + do'p 5361

Mathematics

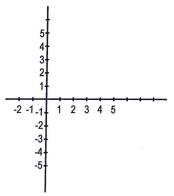
On your own paper

(graph paper)

1. Sketch the region bounded by the lines y = 3, y = 1, x = 1, x = 6.



- d) Determine the perimeter of the region.
- Determine the area of the region. e)
- f) Draw a picture of the region being revolved about the x-axis.



- Describe the geometric solid formed by revolving the region about the x-axis. . g)
- Determine the volume of the geometric solid. h)

Later in class we did:

p 544:16 Example A

p 542: Example A

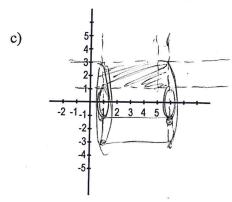
(worked out on p 543)



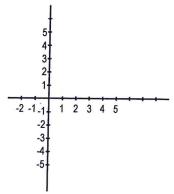
On your own paper (graph paper)

## **Volumes of Revolution**

1. Sketch the region bounded by the lines y = 3, y = 1, x = 1, x = 6.



- d) Determine the perimeter of the region. 7+5+7+5=14 with
- e) Determine the area of the region.  $7.5 = 10 \text{ un}^2$
- f) Draw a picture of the region being revolved about the x-axis.



above

g) Describe the geometric solid formed by revolving the region about the x-axis.

(A) IN LEV

(A) WILL IN

(B) Determine the volume of the geometric solid.

big cylinder-little cylinder

$$r=3$$
 $H=5$ 
 $Tr^2H$ 
 $T=3^2.5-T\cdot 1^2.5$ 
 $H=5$ 
 $H$