Part 1 of Section 6.2

Disk/washer method for finding volumes of solids of revolution

Learning outcomes

After completing this section, you will inshaAllah be able to

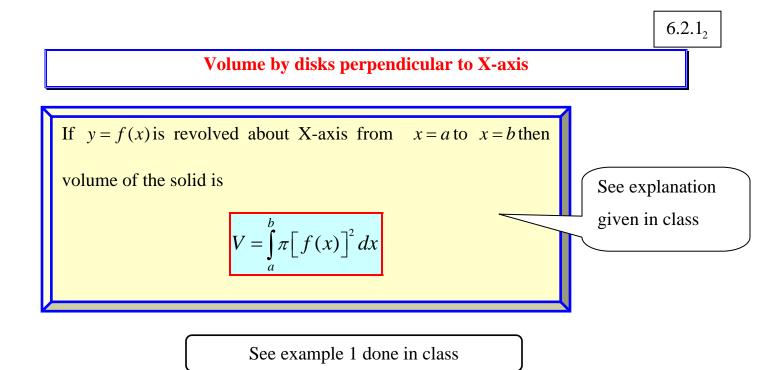
- 1. find volumes of solids of revolutions by using
 - a. disks perpendicular to X-axis
 - b. disks perpendicular to Y-axis
 - c. washers perpendicular to X-axis
 - d. washers perpendicular to Y-axis

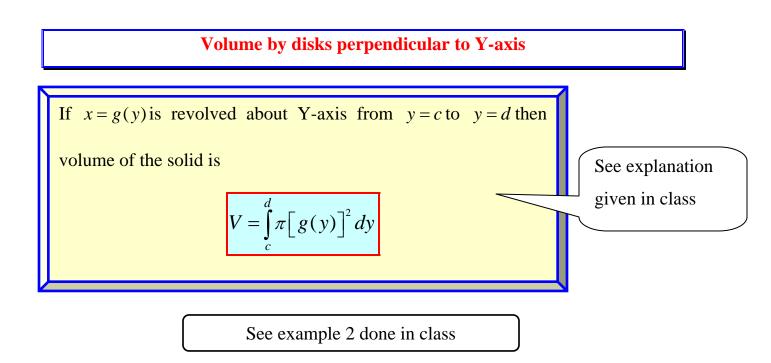
Solid of revolution Generated by revolving a region or area about a line

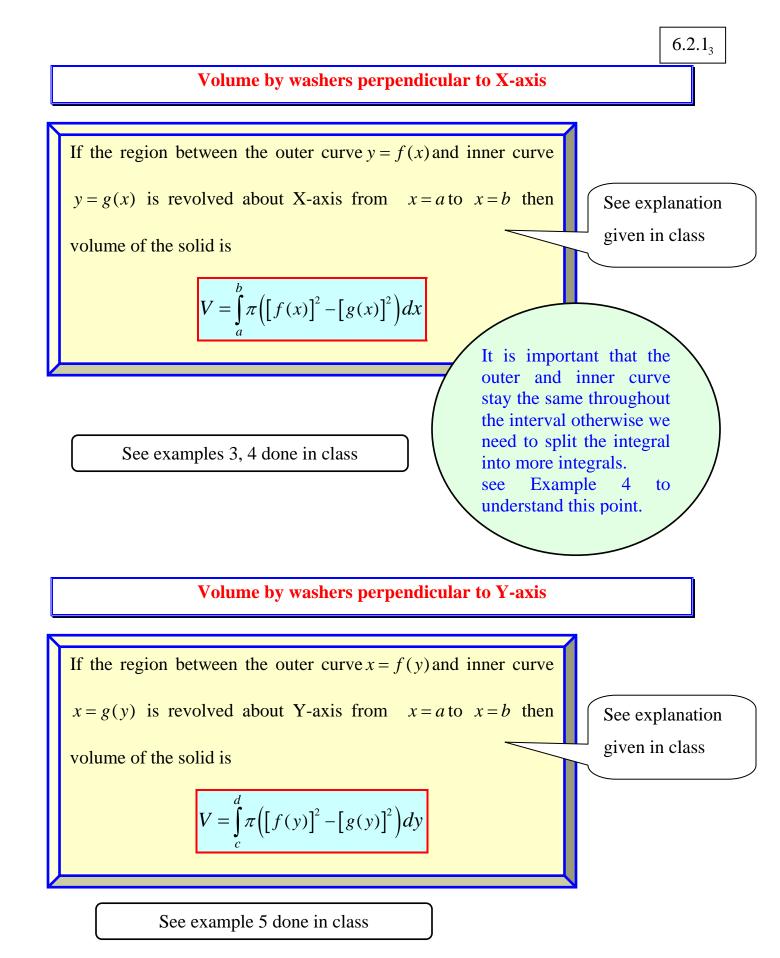
One method to find their volume

is "Disk/washer method", which

we will do in this section.







Revolution about any line

The above ideas of finding volume can be extended to handle

more complicated situations like "revolution about a line"

We learn through examples

See example 6, 7 and exercise 8 discussed in class

End of Part 1 of Section 6.2