

VOLUME (sections 5.2 and 5.3)

A <u>solid of revolution</u> is constructed from a planar region R and a line l in the same plane by rotating R around l. The resulting sdid S has l as a "rotational axis of symmety".

el R Sol

We will discuss two methods for finding the volume of S.

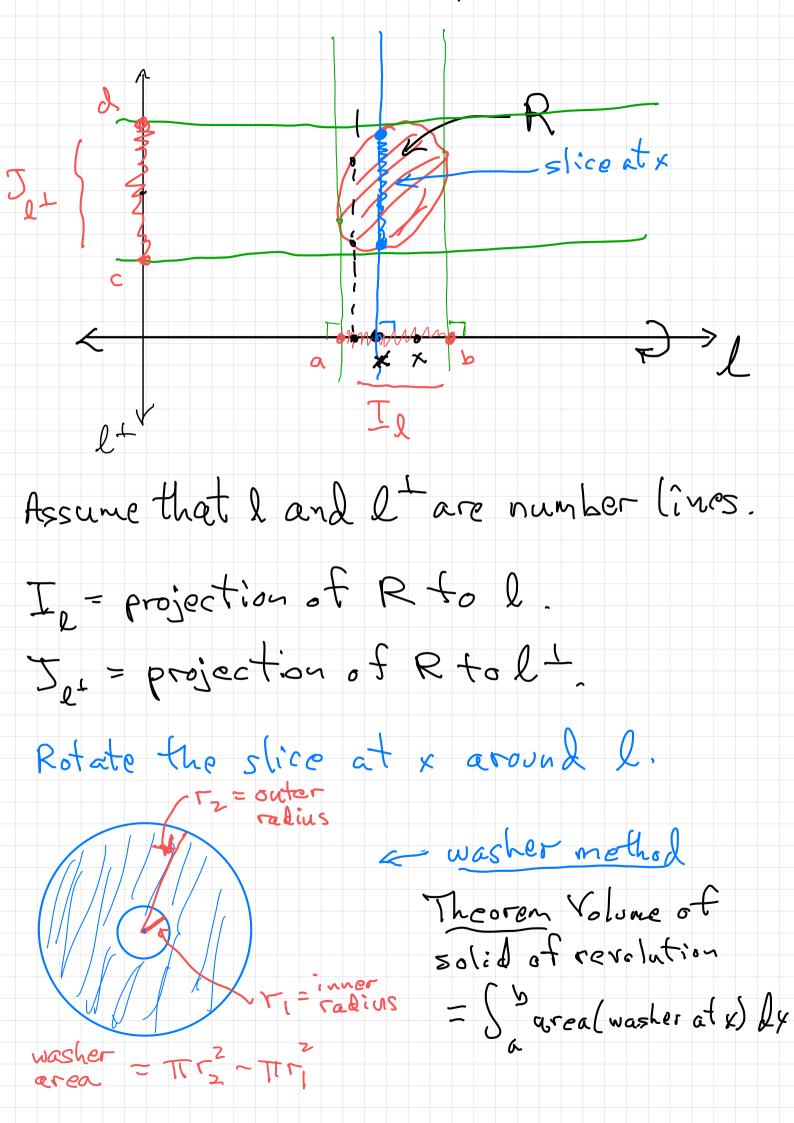
O Disk or Washer method:

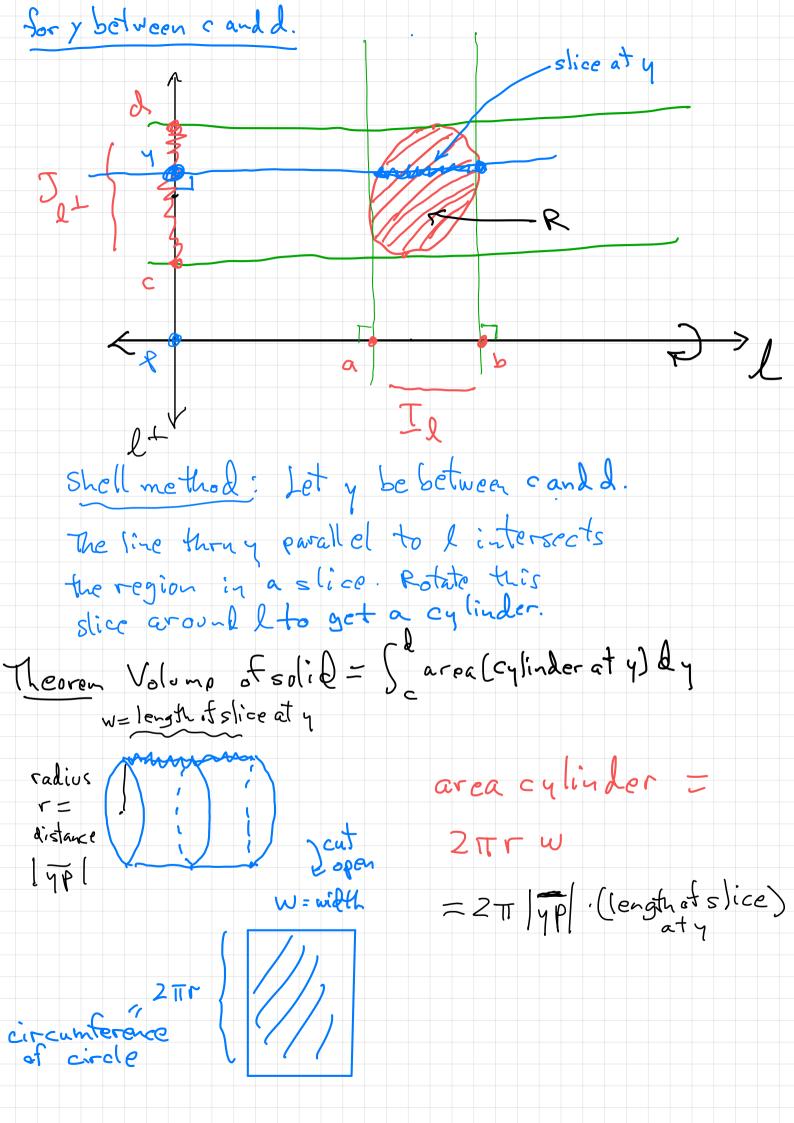
use Las reference line.

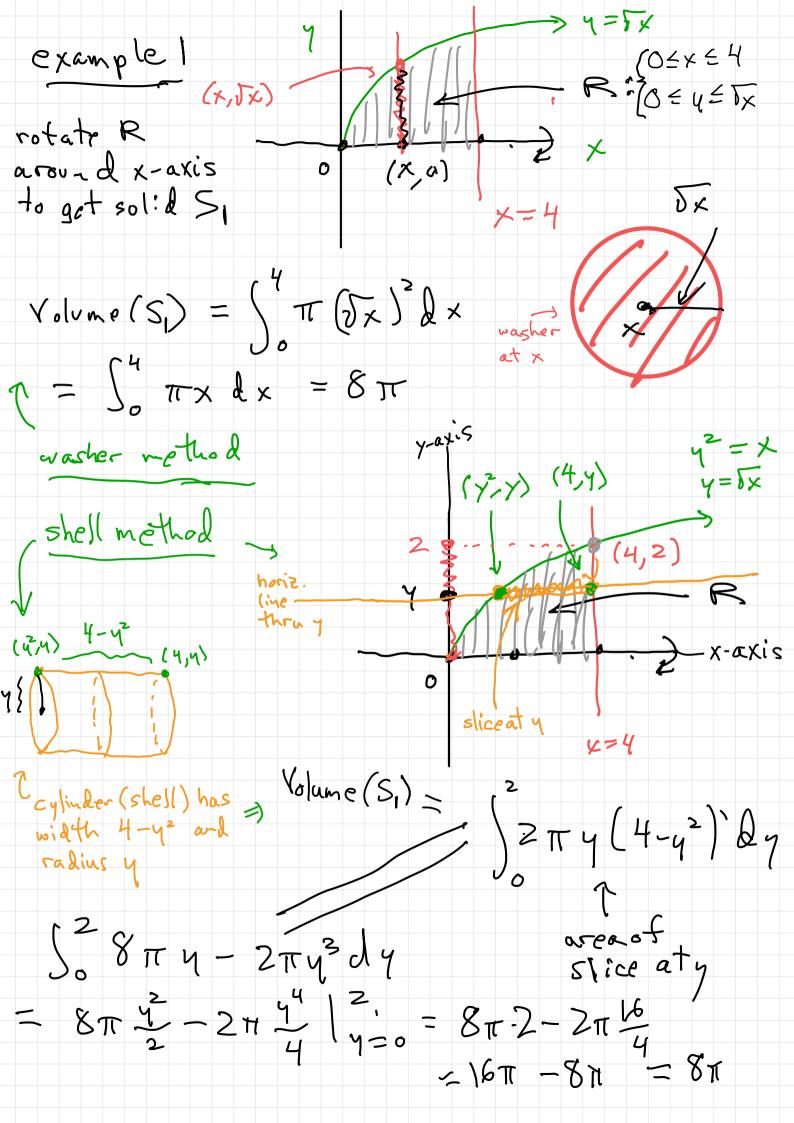
D Cylindrical shell method:

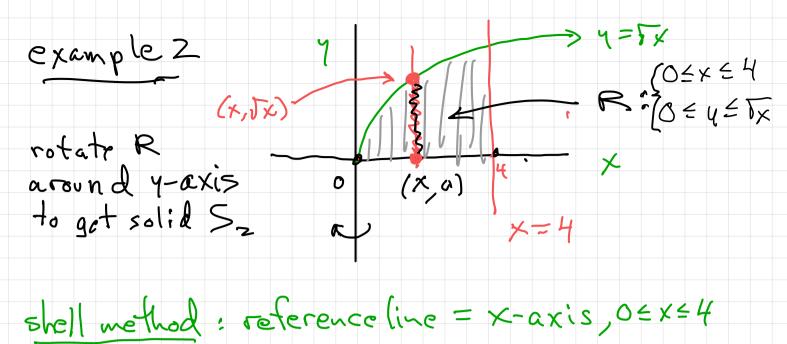
use a line l' perpendicular to l as reference line.

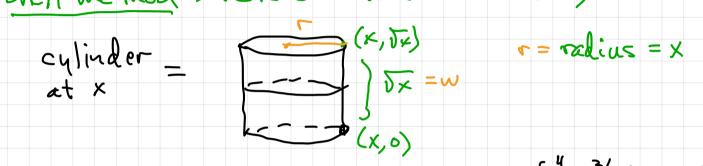
L = "perpendicular"

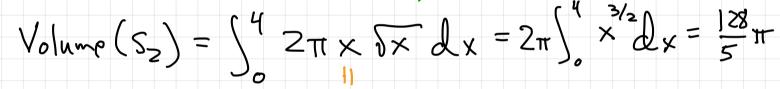












	C		
washer method	: reterence	ine = y-axis	: 0= 4=2

