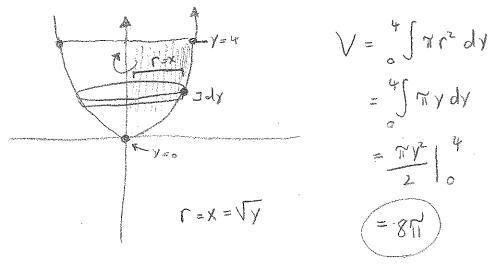
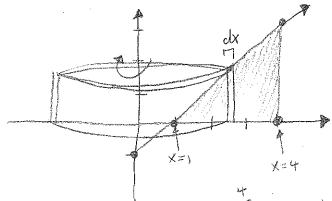
NAME	•	

## RECITATION: Mon8 Mon9 Wed8 Wed9

1. Find the volume of revolution defined by rotating the region above  $y=x^2$  and below y=4 around the y-axis.



2. Set up (only!) an equation for the volume of revolution defined by rotating the region D around the y-axis, where D is the region below y = x - 1, left of x = 4, and above y = 0.



$$r = x$$
 $h = y = x - 1$ 

USE SHELLS:

$$=\int 2\pi \times (x-1) dx$$

OR WASHERS:

$$V = 71 \int_{0}^{3} r_{out}^{2} - r_{IN}^{2} dy$$

$$= 71 \int_{0}^{3} (4^{2} - (4+1)^{2}) dy$$