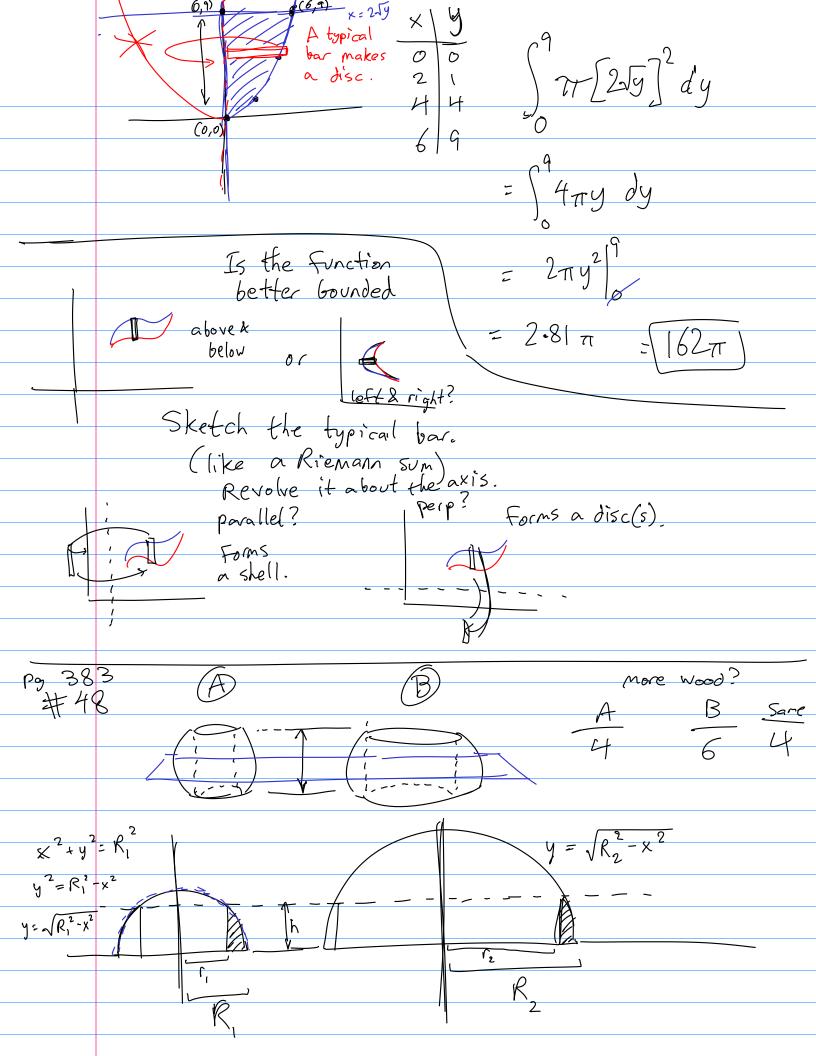
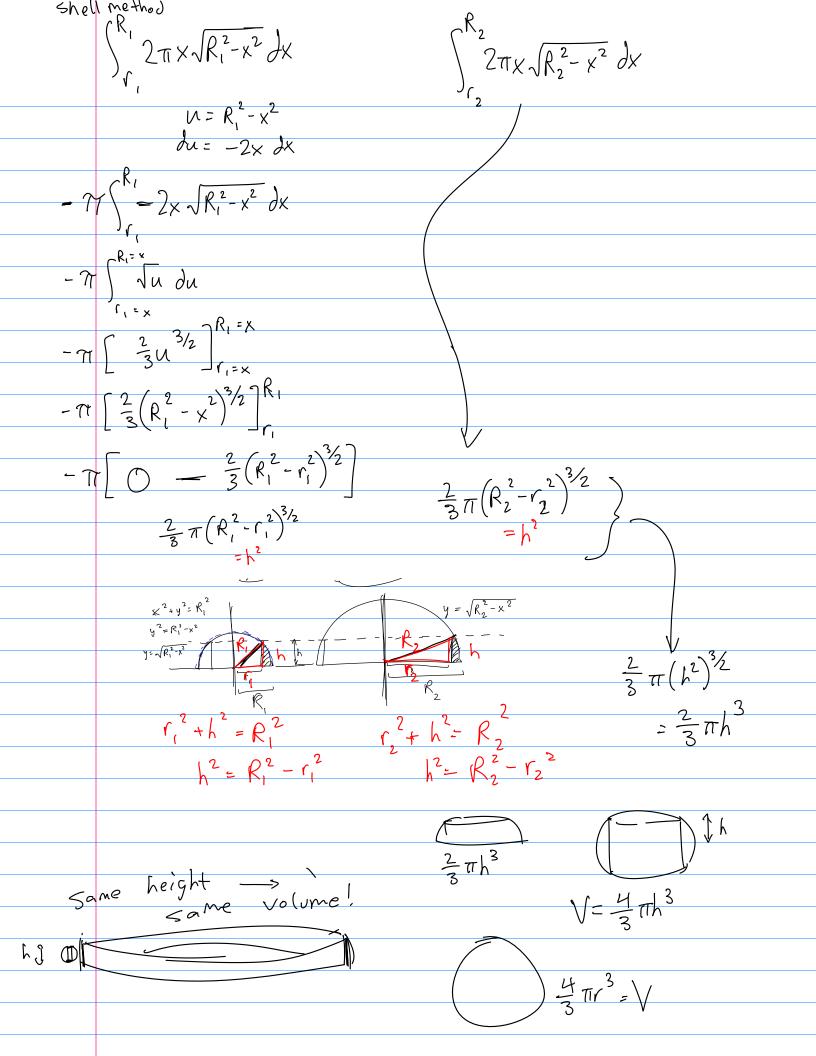
Pg 383 #37
$$y = -x^{2} + 6x - 8$$

$$y = 0$$

A typical bar, here, 
$$\frac{2}{3}$$
 lo Forms a shell.  $\frac{2}{10}$   $\frac{1}{2}$   $\frac{1}{2}$   $\frac{1}{4}$   $\frac{1}$ 

$$X = 2\sqrt{y}$$
  $x = 0$   $y = 9$  about y-axis





$$y = \frac{1}{\sqrt{x+1}}$$

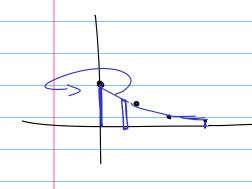
0 to 1 about x-axis.

$$\int_{0}^{1} 7\left(\frac{1}{\sqrt{x+1}}\right)^{2} dx$$

$$= 7\left(\frac{1}{x+1}\right) dx$$

$$= \pi \int_{0}^{2} \frac{1}{u} du$$

$$y = \frac{1}{x^2 + 1}$$



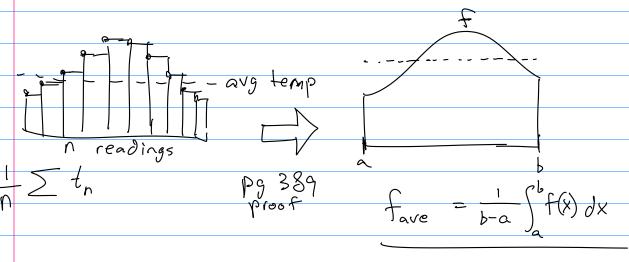
$$\int_{0}^{3} 2\pi \times \frac{1}{x^{2}+1} dx$$

$$= 77 \int_{0}^{3} \frac{2x}{x^{2}+1} dx$$

$$U = \chi^{2} + |$$

$$\int_{0=\chi}^{3=\chi} \frac{1}{u} du$$

5.5 Find the average value of a function over an interval.



Pg 391

T(t)=50+ |H sin(
$$\frac{\pi t}{12}$$
)

 $t=hrs$  after 9am

 $t=0$ 
 $t=12$ 
 $t=1$