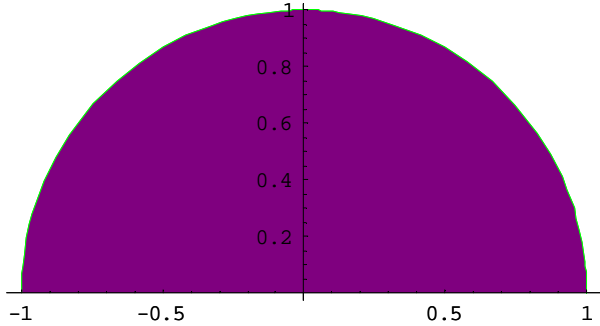


January 31  
Section 6.4  
Answer Questions

Problem #29

$$\int_{-1}^1 \sqrt{1-x^2} dx$$

I notice that the function is never negative; so this would be talking about an area

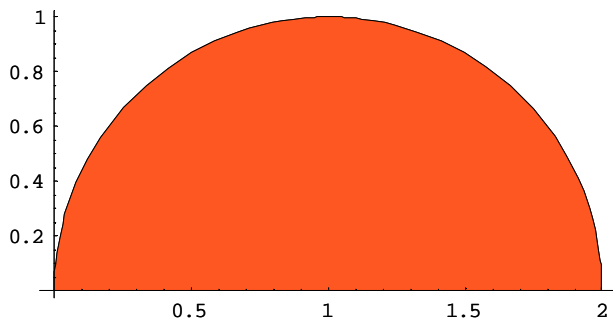


So we are looking for the area of a semicircle with radius 1

$$\int_{-1}^1 \sqrt{1-x^2} dx = \frac{1}{2} \pi (1)^2 = \frac{\pi}{2}$$

Problem #31

$$\int_0^2 \sqrt{1-(x-1)^2} dx$$



So this area is the same as the previous one