

# Lecture 21: Worksheet

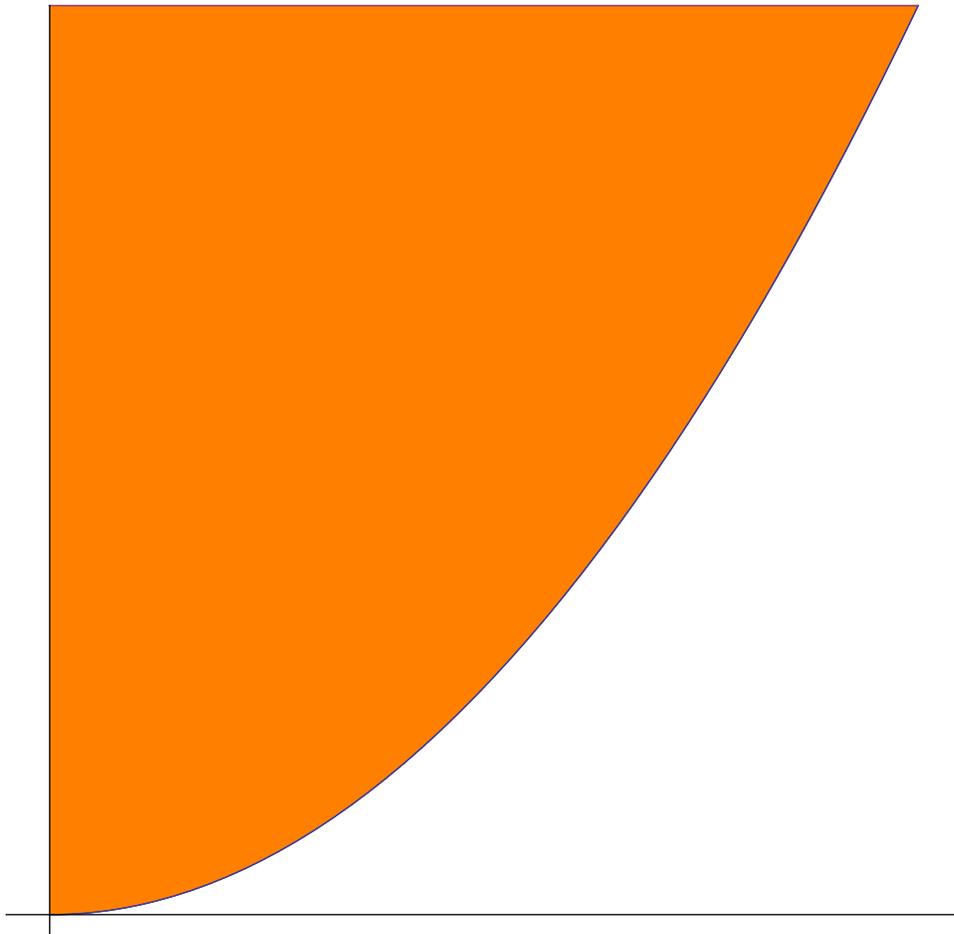
## Area Computation

**1**

Can you find the area enclosed by the graphs  $x^2$  and  $8 - x^2$ ?

**2**

Lets compute the area of the region enclosed by the lines  $x = 0$ ,  $x = \sqrt{y}$ ,  $y = 0$  and  $y = 4$ . In order to solve such an area problem, we have to draw a picture. We started doing that. Find ways to find the area.



3

Lets compute the area of the region enclosed by the lines  $x = 0$ ,  $x = y^2$ ,  $y = 0$  and  $y = 2$ .  
Now its your turn to draw a picture and compute the area.

