

Notes 2.4 **Area Bounded by a Region**

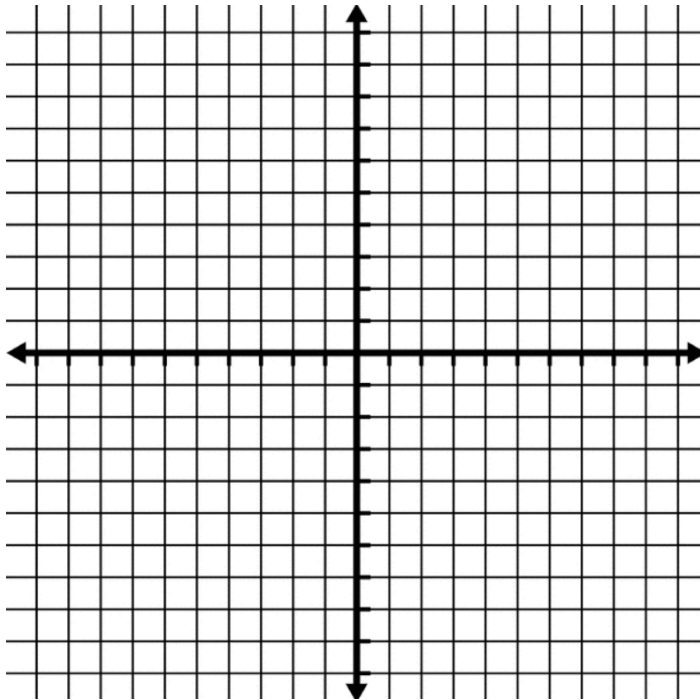
From last night's homework #7:

$$\int_{-\pi/2}^{\pi/2} \cos\theta \, d\theta$$

$$\int_0^{\pi} \cos\theta \, d\theta$$

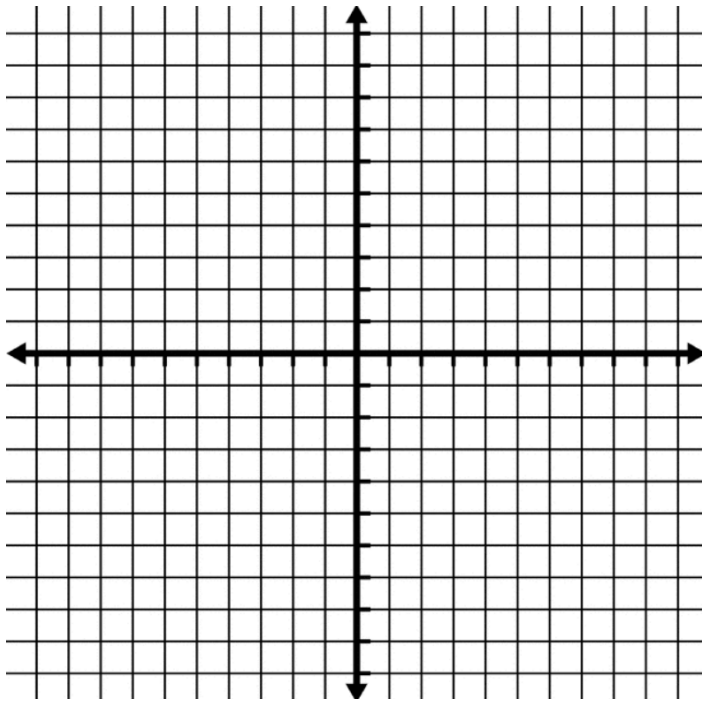
Sketch the region and find its area.

1. under the parabola  $y = 9 - x^2$  and above the x-axis



Sketch the region and find its area.

2. bounded by the parabola  $y = x^2 - 4$  and line  $y = 2x - 1$



3. bounded by the parabola  $y = -x^2 + 1$  and line  $y = -x - 1$

