

1. Graph the polar curve  $r = \cos(\theta) + 1$  by hand.
  
2. Find the area of each polar region  $R$ :
  - a.  $R$  is bounded by the graph  $r = \sin(\theta)$
  - b.  $R$  is the region inside the big leaf of  $r = 1 - 2\sin(\theta)$  but outside the small leaf.