

1. Graph $r = \cos(\theta) + 1$ by hand, and verify your graph using Maple.

2. Find the area of each polar region R :
 - 2.1 R is bounded by the graph $r = \sin(\theta)$
 - 2.2 R is the region inside the big leaf of $r = 1 - 2\sin(\theta)$ but outside the small leaf.