Graph each region then find its area.

1. The region bounded by the graph $r=\sin (\theta)$
2. One leaf of $r=4 \sin (3 \theta)$
3. The four leaf region $r=\cos (2 \theta)$
4. The region inside the big leaf of $r=1-2 \sin (\theta)$ but outside the small leaf
5. The region inside $r=4 \sin (\theta)$ but outside $r=1$
6. The region inside $r=2 \cos (2 \theta)$ but outside $r=1$
