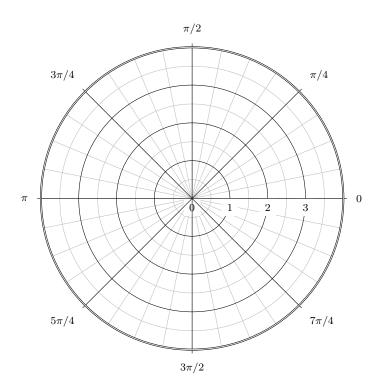
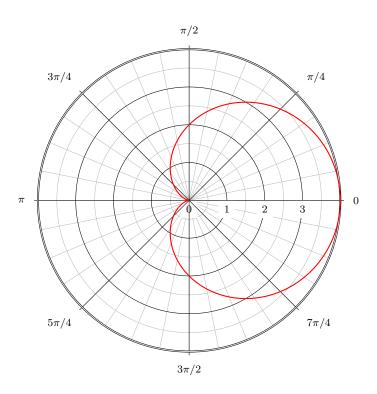
- 1. Convert the rectangular coordinates (-4,4) to polar coordinates
- 2. Convert the polar coordinates $(8, \frac{2\pi}{3})$ to rectangular coordinates
- 3. Draw a quick sketch of the three polar equations: $r=4, \theta=\frac{\pi}{4}, r=2\sin(\theta)$



4. Find the area enclosed by the curve $r = 2 + 2\cos(\theta)$



5. Find the points on the curve $r = 1 + \cos(\theta)$ where the tangent lines are horizontal.