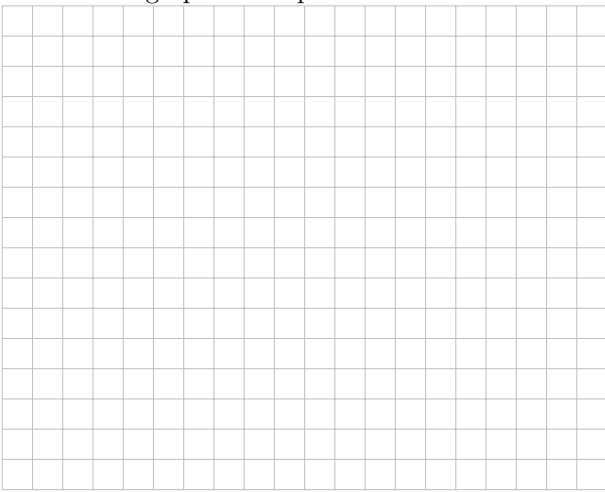
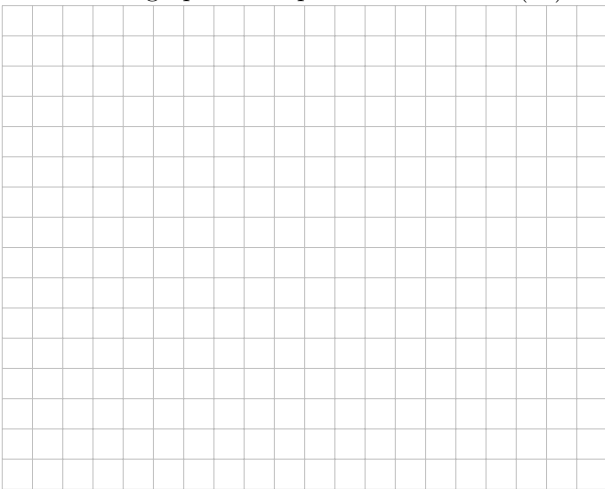


1. Sketch a graph of the polar curve $r = 1 - \cos \theta$.



2. Sketch a graph of the polar curve $r = \sin(3\theta)$.



3. Find the slope of the line tangent to the curve $r = \sin(3\theta)$ at the given value of θ .

a) $\theta = \frac{\pi}{2}$

b) $\theta = \frac{\pi}{6}$