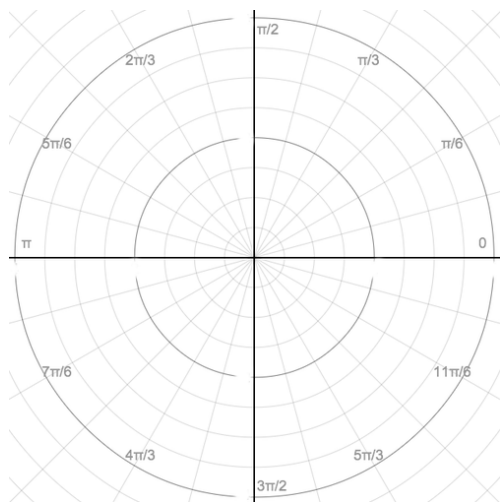


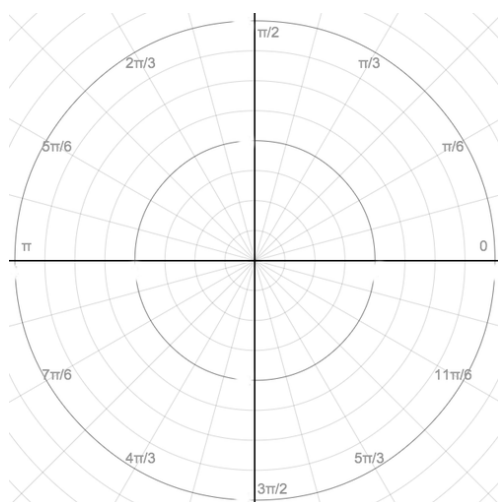
Worksheet: Sketching polar curves

For each formula $r = f(\theta)$, plot the polar curve on the “polar graph paper.” Pencil is recommended!

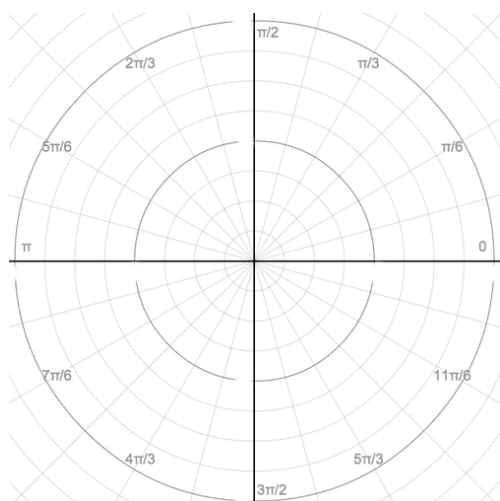
1. $r = e^\theta$



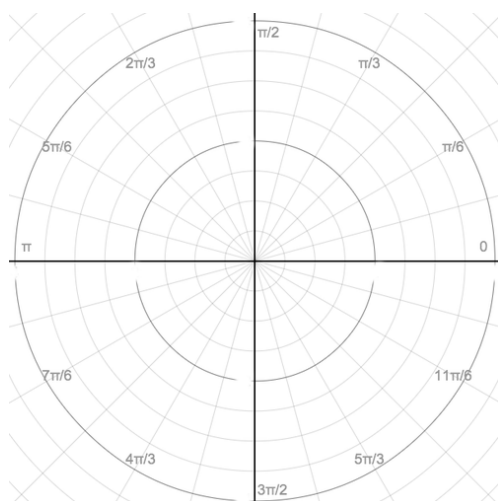
2. $r = \ln(\theta), \theta \geq 1$



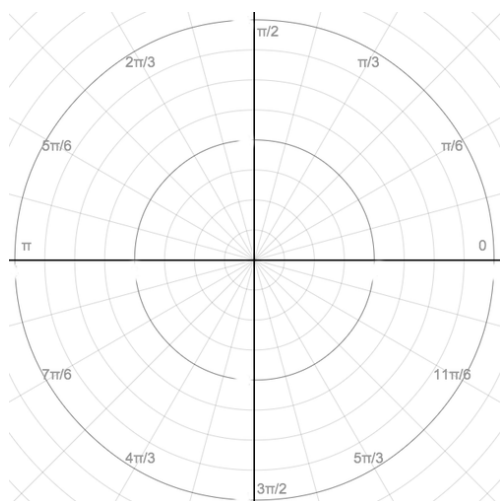
3. $r = \sin(\theta)$



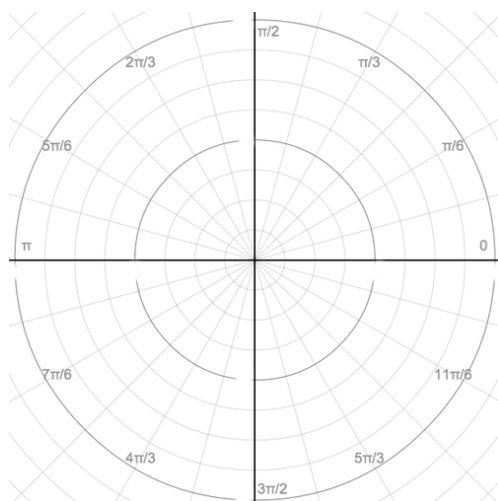
4. $r = \sin(2\theta)$



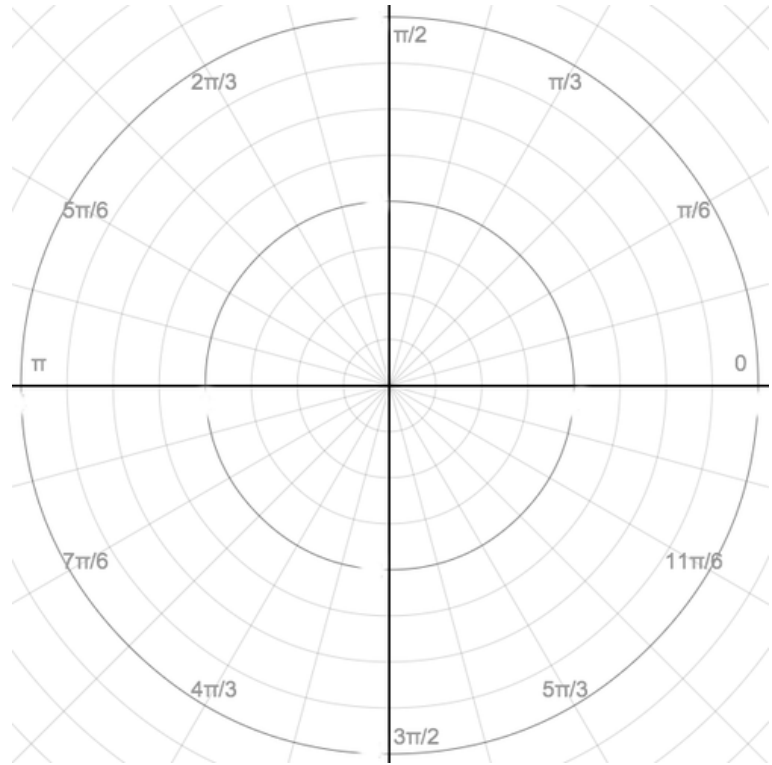
5. $r = \sin(3\theta)$



6. $r = \sin(4\theta)$



7. $r = 3 + \cos(7\theta)$



8. $(x^2 + y^2)^3 = 4x^2y^2$
 (This is problem 10.3 # 52. Convert to polar and simplify!)

