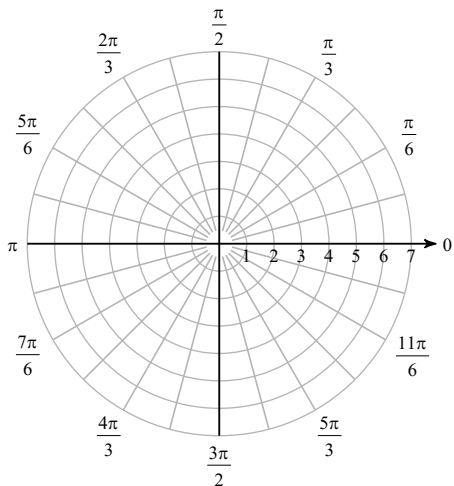


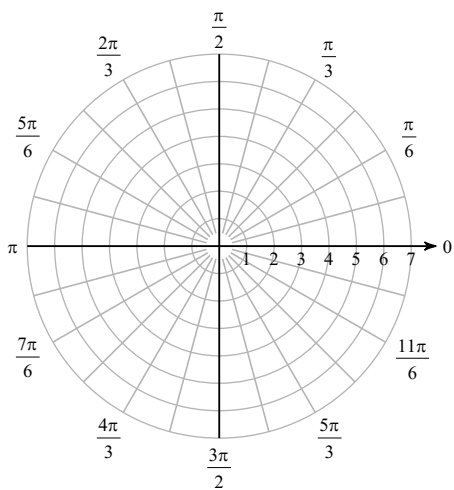
Circles & Cardioids

Consider each polar equation. Classify the curve; and sketch the graph.

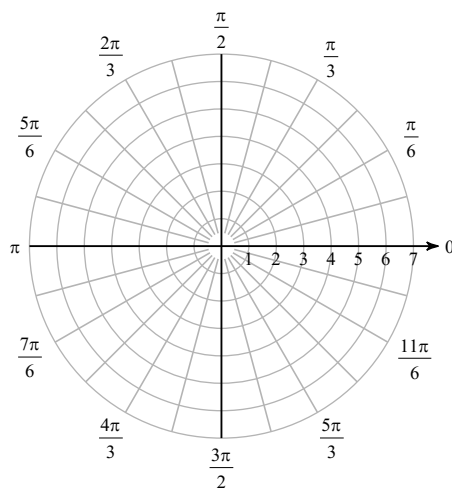
1) $r = 1 + \cos \theta$



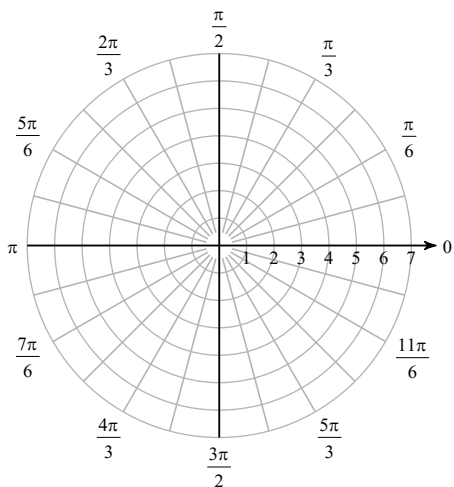
2) $r = 3 \sin \theta$



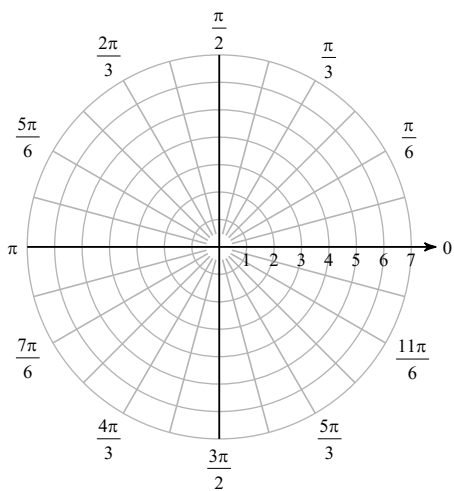
3) $r = -2 \cos \theta$



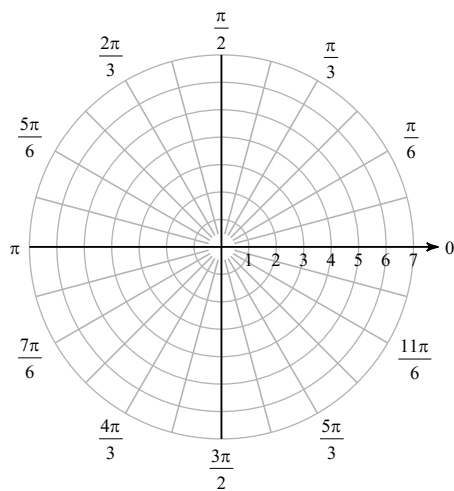
4) $r = 2 + 2 \sin \theta$



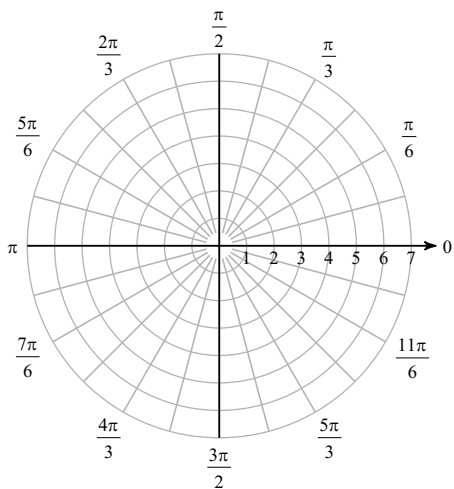
5) $r = \cos \theta$



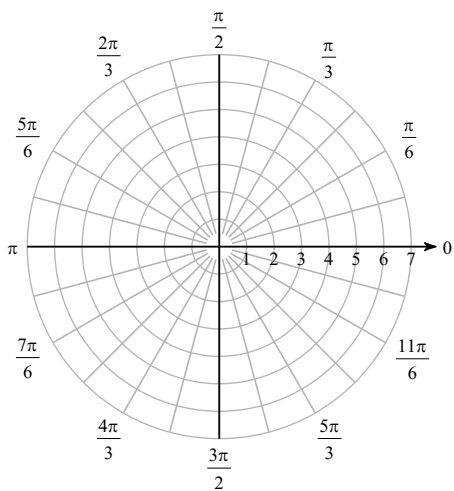
6) $r = -2\sin \theta$



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



8) $r = 3 - 3\sin \theta$



Answers to Circles & Cardioids

