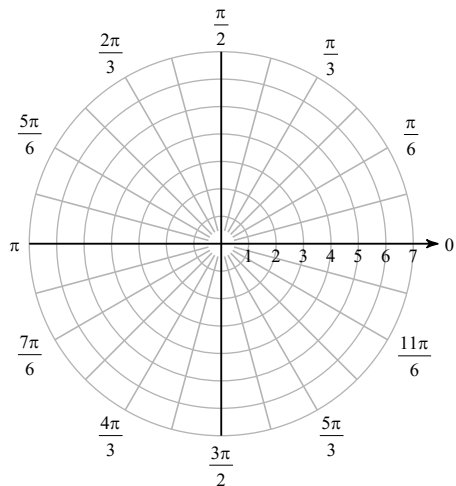


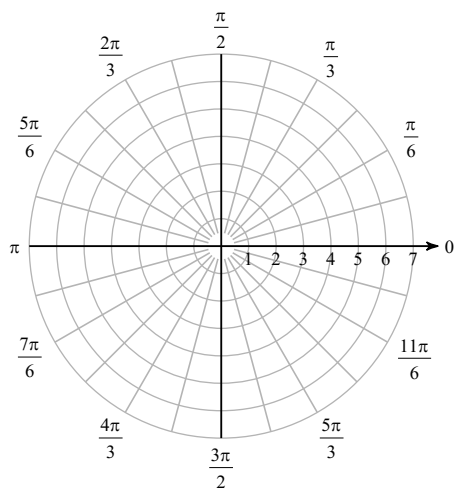
Polar Graphing Review

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

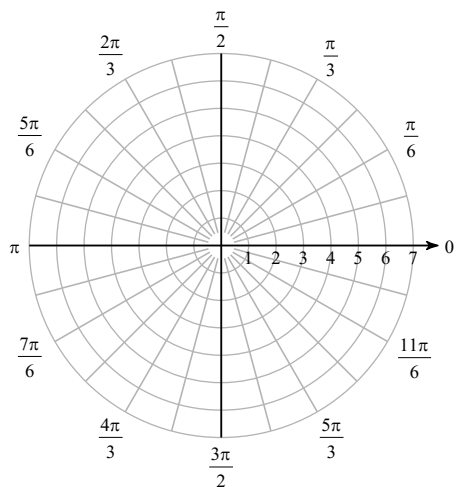
1) $r = -4\sin \theta$



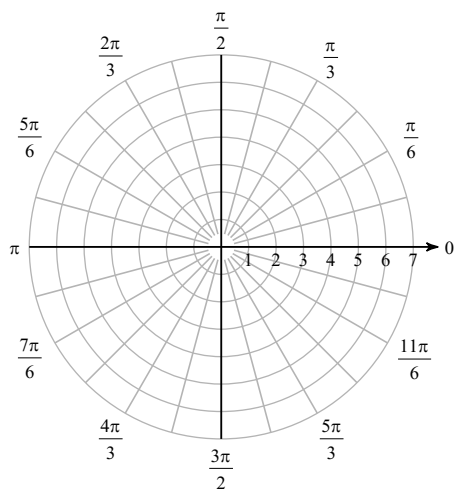
2) $r = 2 - 4\sin \theta$



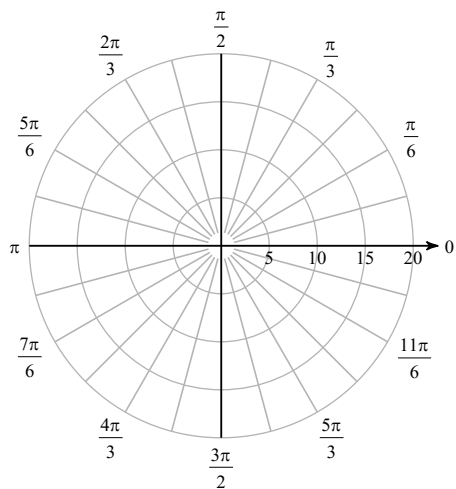
3) $r = 1 + \cos \theta$



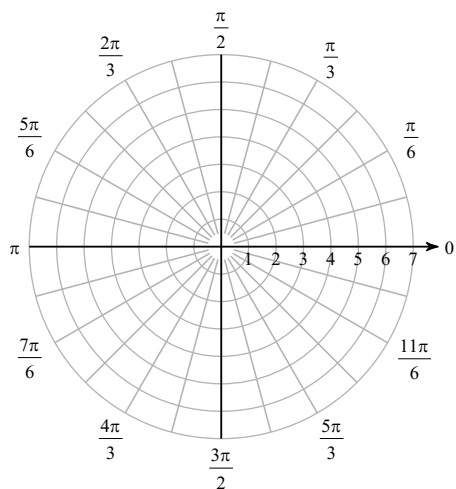
4) $r = 7\cos(5\theta)$



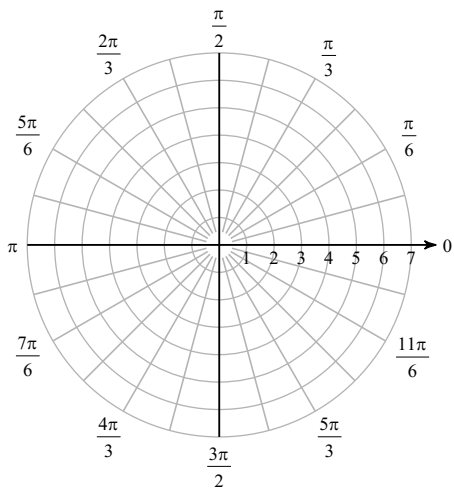
5) $r = 2\theta, \theta > 0$



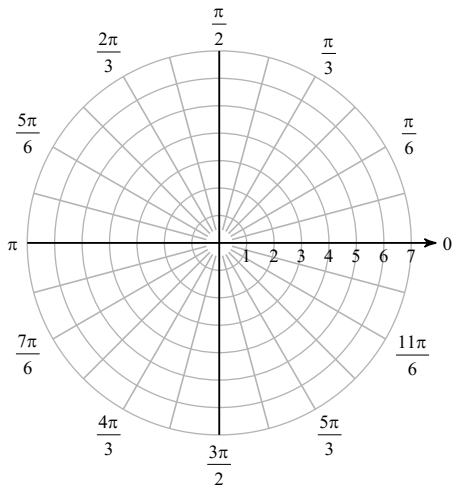
6) $r = 3\sin(5\theta)$



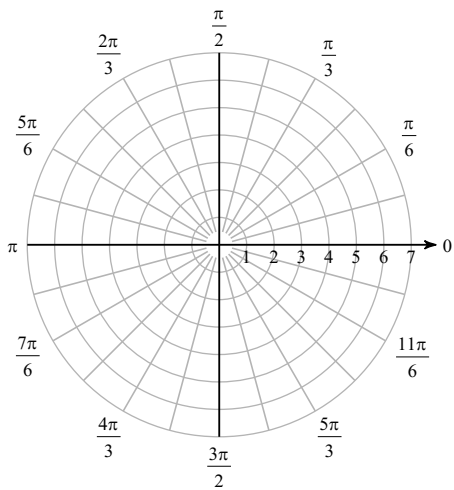
7) $r = 2 - 2\sin \theta$



8) $r^2 = 36\sin(2\theta)$

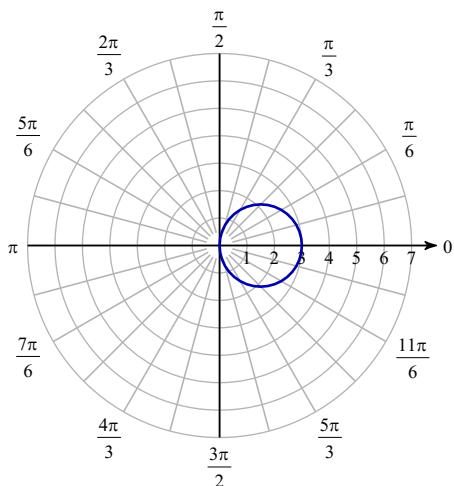


9) $r = 2 - 4\cos \theta$

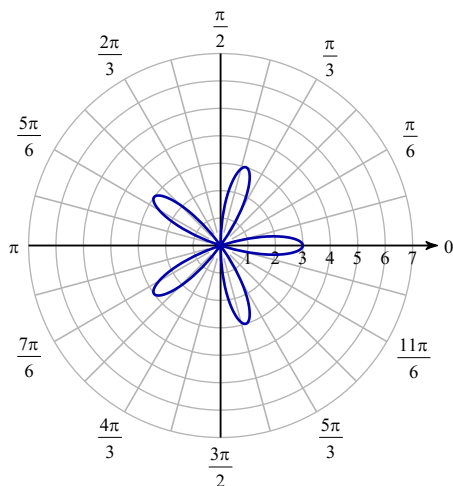


Consider each polar graph. Classify the curve; and write the equation.

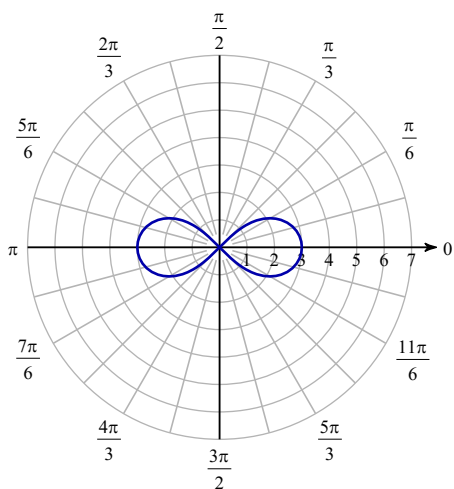
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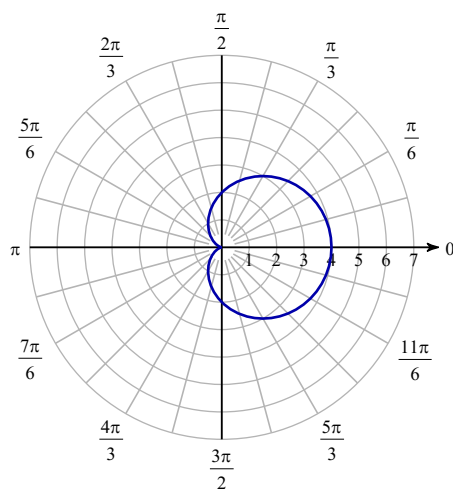
11)



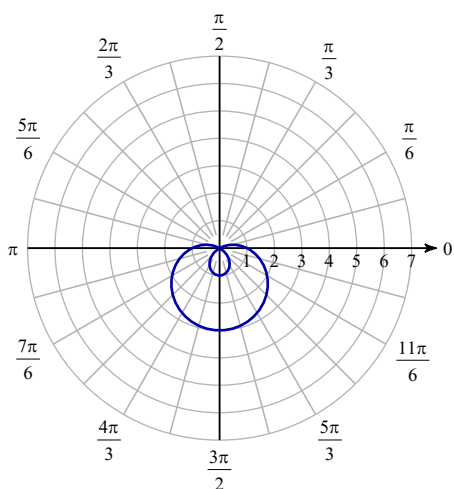
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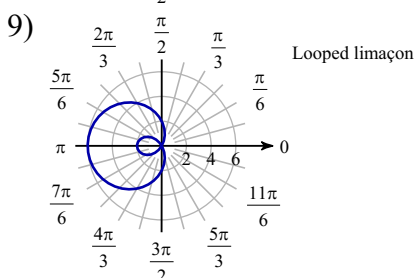
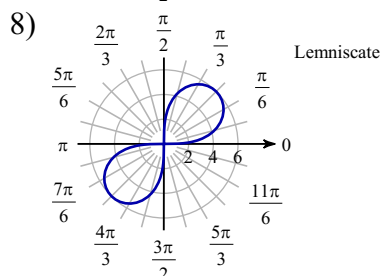
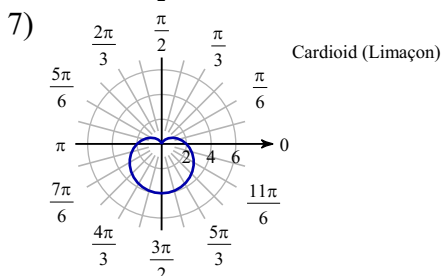
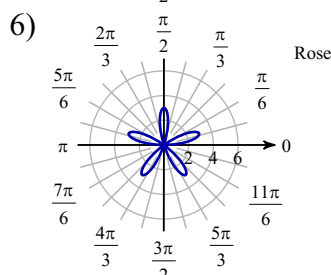
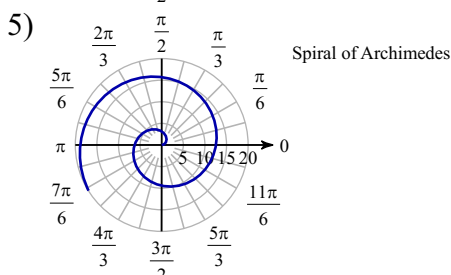
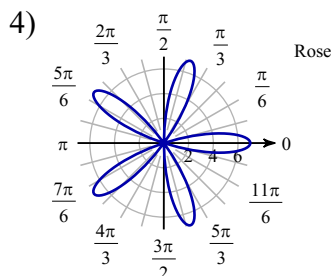
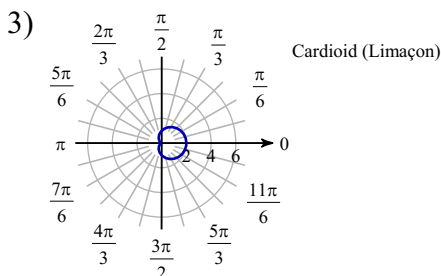
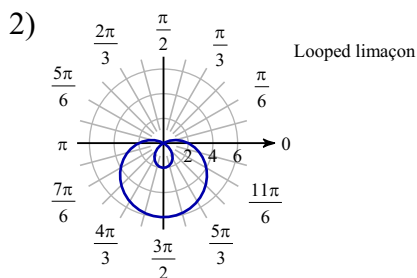
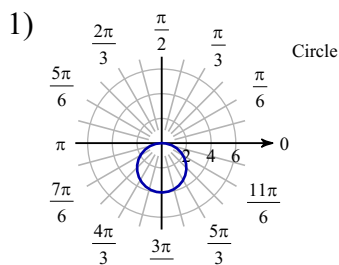
13)



14)



Answers to Polar Graphing Review



10) Circle
 $r = 3\cos \theta$

11) Rose
 $r = 3\cos (5\theta)$

12) Lemniscate
 $r^2 = 9\cos (2\theta)$

13) Cardioid (Limaçon)
 $r = 2 + 2\cos \theta$

14) Looped limaçon
 $r = 1 - 2\sin \theta$