

Type	Graph	Rules	Equation	Example
Line				
Circle				
Cardioid (Heart-Shaped)				
Limaçon (Inner Loop)			$r = a \pm b \cos \theta$ $r = a \pm b \sin \theta$	
Limaçon (Dimpled)			$r = a \pm b \cos \theta$ $r = a \pm b \sin \theta$	
Limaçon (Convex)			$r = a \pm b \cos \theta$ $r = a \pm b \sin \theta$	
Rose ($\cos n\theta$) when $n = \text{odd}$		n is odd, n pedals Cos: 1 st pedal is at 0 radian		
Rose ($\cos n\theta$) when $n = \text{even}$		n is even, $2n$ pedals Cos: 1 st pedal is at 0 radian		

Type	Graph	Rules	Equation	Example
<p>Rose ($\sin n\theta$) when $n = \text{odd}$</p>		<p>n is odd, n pedals Sin: 1st pedal is at $\frac{\pi}{2n}$ radian</p>		
<p>Rose ($\sin n\theta$) when $n = \text{even}$</p>		<p>n is even, $2n$ ped. Sin: 1st pedal is $\frac{\pi}{2n}$ radian</p>		
<p>Lemniscates ($\cos 2\theta$)</p>		<p>n is odd, n pedals Cos: loops are at 0 and π</p>		
<p>Lemniscates ($\sin 2\theta$)</p>		<p>n is even, n ped. Sin: loops are at $\pi/4$ and $5\pi/4$</p>		
<p>Archimedes Spiral when $a = \text{positive}$</p>				
<p>Archimedes Spiral $a = \text{negative}$</p>				