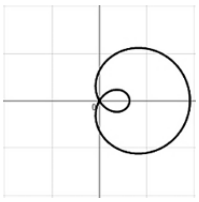
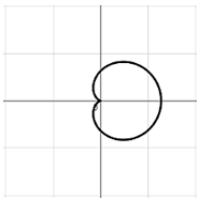
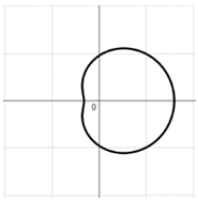
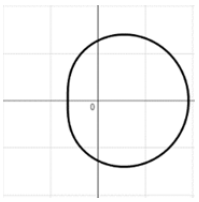
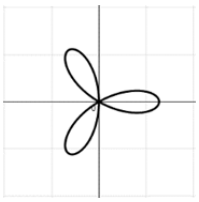
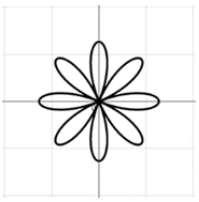
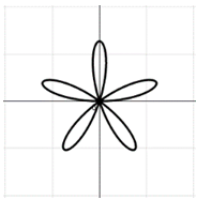
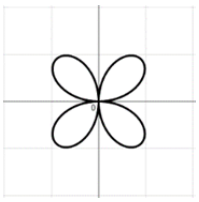
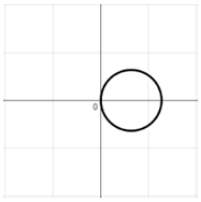
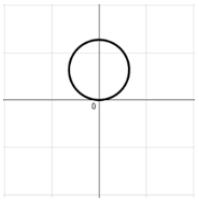
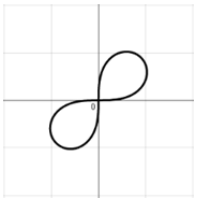
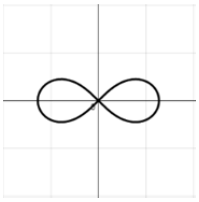
6.6H Resource Page
Special Polar Graphs

Limaçons $r = a \pm b\cos\theta$ $r = a \pm b\sin\theta$ $a > 0, b > 0$ Examples at right are for $r = a + b\cos\theta$	 Limaçon with inner loop $\frac{a}{b} < 1$	 Cardioid (heart-shaped) $\frac{a}{b} = 1$	 Dimpled limaçon $1 < \frac{a}{b} < 2$	 Convex limaçon $\frac{a}{b} \geq 2$
Rose Curves n petals if n is odd $2n$ petals if n is even ($n \geq 2$)	 Rose curve $r = a\cos 3\theta$	 Rose curve $r = a\cos 4\theta$	 Rose curve $r = a\sin 5\theta$	 Rose curve $r = a\sin 2\theta$
Circles and Lemniscates	 Circle $r = a\cos\theta$	 Circle $r = a\sin\theta$	 Lemniscate $r^2 = a^2\sin 2\theta$	 Lemniscate $r^2 = a^2\cos 2\theta$