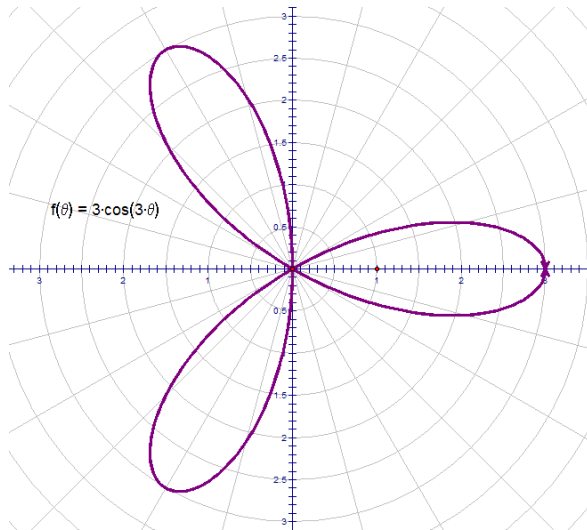


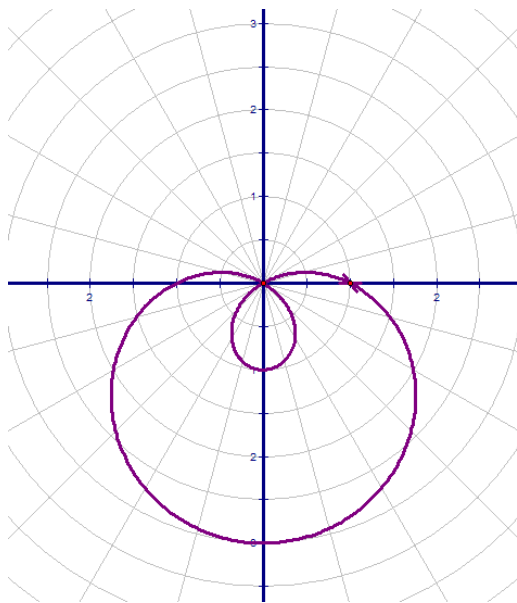
Find the area enclosed by the petals of the rose

$$r = 3 \cos 3\theta$$



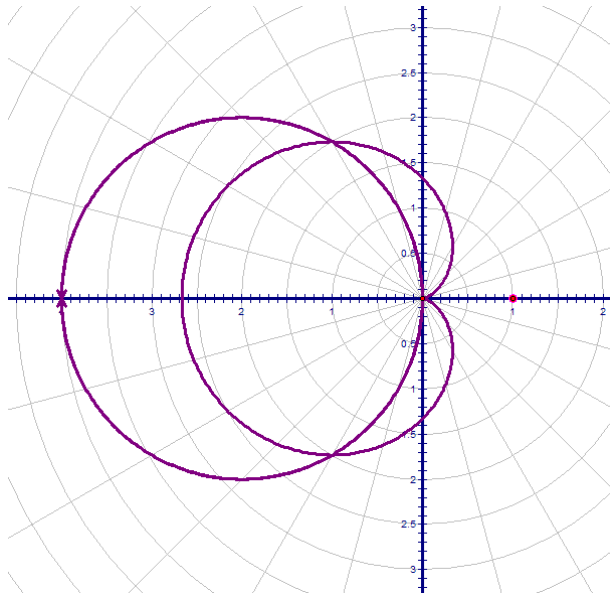
Find the area enclosed by the outer loop of the

limaçon $r = 1 - 2\sin \theta$



Find the area common to both the circle

$$r = -4\cos\theta \text{ and the cardioid } r = \frac{4}{3} - \frac{4}{3}\cos\theta$$



Find the area inside the cardioid $r = \frac{4}{3} - \frac{4}{3}\cos\theta$
and outside the circle $r = -4\cos\theta$

