

# Graphing Polar Equations By Hand

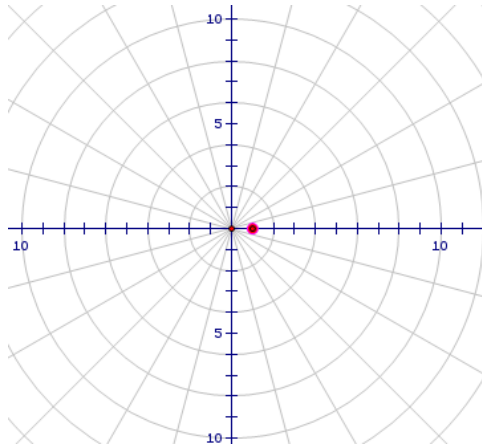
Name: \_\_\_\_\_

Rose Curves:

1.)  $r = 5 \sin 2\theta$

# of petals: \_\_\_\_\_

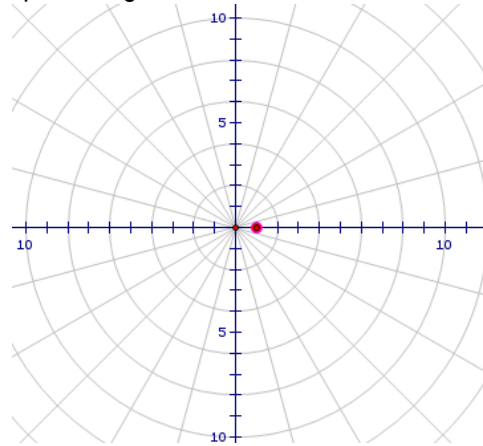
petal length: \_\_\_\_\_



2.)  $r = 8 \cos 3\theta$

# of petals: \_\_\_\_\_

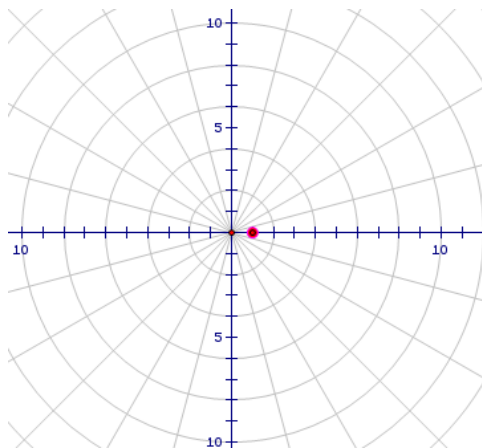
petal length: \_\_\_\_\_



3.)  $r = 7 \sin 5\theta$

# of petals: \_\_\_\_\_

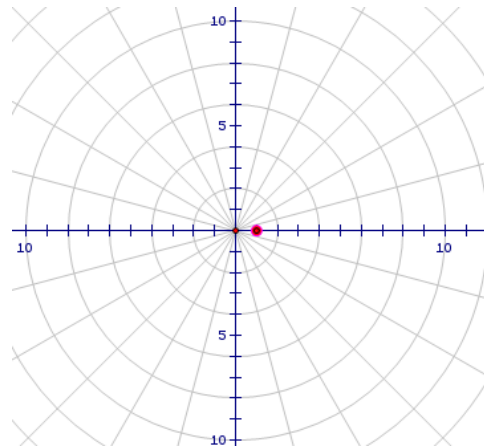
petal length: \_\_\_\_\_



4.)  $r = 6 \cos 4\theta$

# of petals: \_\_\_\_\_

petal length: \_\_\_\_\_



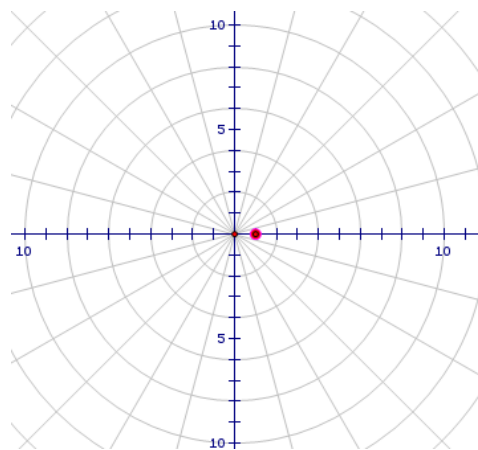
Graphing #1 and #2 above as the rectangular graph, locate the petals and where they start, end:

1.)  $y = 5 \sin 2\theta$

2.)  $y = 8 \cos 3\theta$

Cardioid Limacons: Graph using rectangular coordinates and use it to graph the polar form:

1.)  $r = 2 - 2 \cos \theta$



2.)  $r = 5 + 5 \sin \theta$

