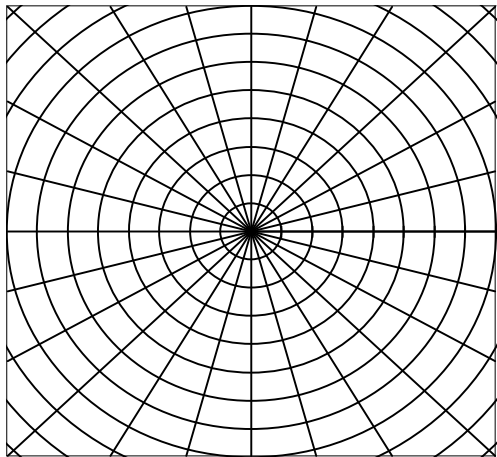


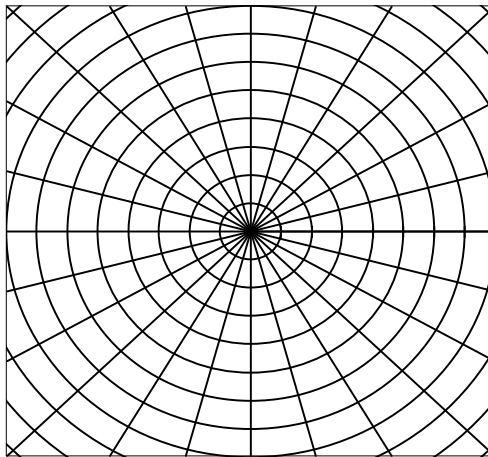
Homework - All Graphs Together! NO CALCULATOR!

Sketch a graph of each of the following.

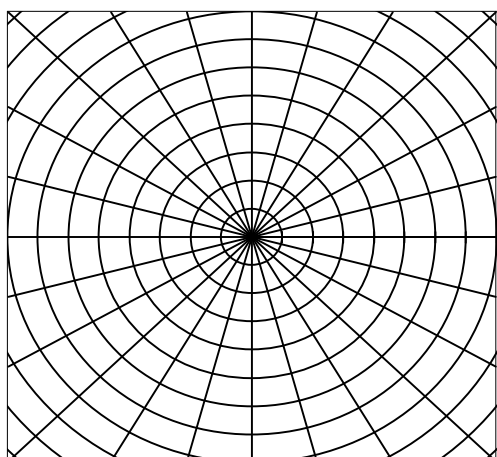
1. $r = 3 + 3\sin\theta$



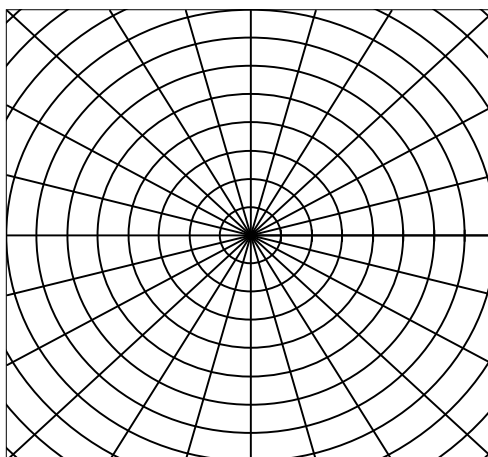
2. $r = 2\sin\theta$



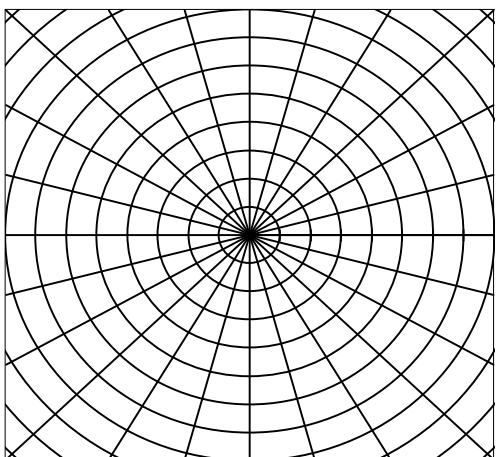
3. $r = 5\cos 3\theta$



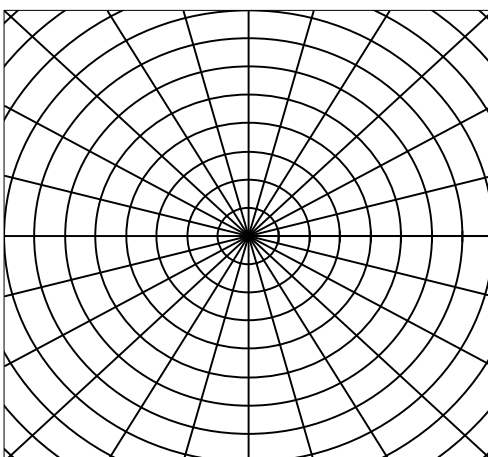
4. $r = 3\sin 2\theta$



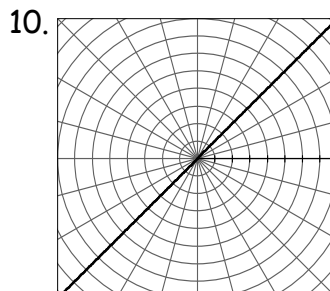
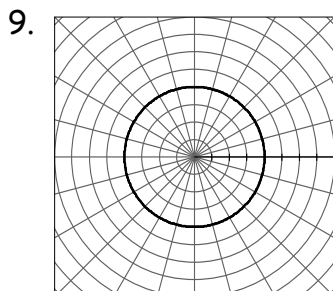
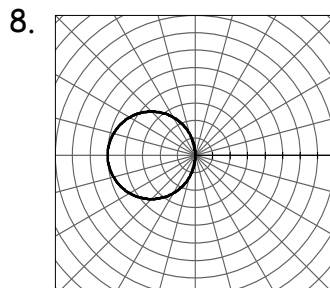
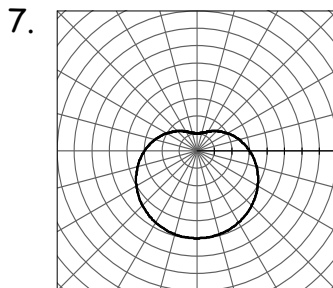
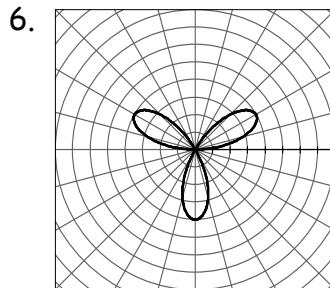
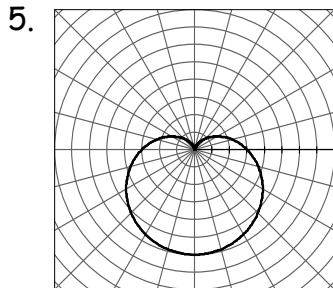
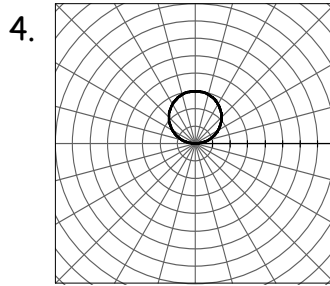
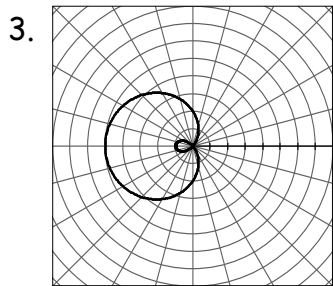
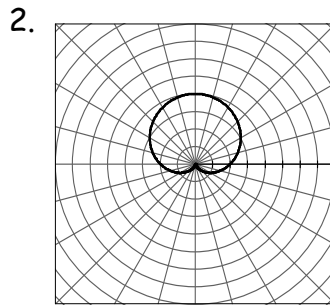
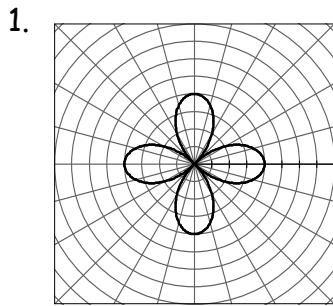
5. $r = 3 + 2\sin\theta$



6. $r = 1 - 3\cos\theta$



Match the equation to the polar graph.



- a) $r = -5\cos\theta$
- b) $r = 3 - 3\sin\theta$
- c) $r = 4$
- d) $r = 4\sin 3\theta$
- e) $r = 2 - 3\cos\theta$
- f) $r = 3 - 2\sin\theta$
- g) $r = 4\cos 2\theta$
- h) $\theta = 45^\circ$
- i) $r = 3\sin\theta$
- j) $r = 2 + 2\sin\theta$