## EMCF18 - Math 1432, 13209

The answer sheet for this assignment can be found by logging into CourseWare at http://www.casa.uh.edu, selecting Math 1432(13209), clicking on the EMCF tab at the top of the page, and selecting EMCF18.

Note: See the last page of Monday's notes for information about dents, inner loops and cardiods.

1. The polar curve $r=3 \cos (\theta)$
a. is a cardiod
b. has an inner loop
c. has a dent
d. is a circle
e. None of these.
2. The polar curve $r=-5 \sin (\theta)$
a. is a cardiod
b. has an inner loop
c. has a dent
d. is a circle
e. None of these.
3. The polar curve $r=3-2 \cos (\theta)$
a. is a cardiod
b. has an inner loop
c. has a dent
d. is a circle
e. None of these.
4. The polar curve $r=3+4 \sin (\theta)$
a. is a cardiod
b. has an inner loop
c. has a dent
d. is a circle
e. None of these.
5. The polar curve $r=3-3 \sin (\theta)$
a. is a cardiod
b. has an inner loop
c. has a dent
d. is a circle
e. None of these.
6. The polar curve $r=3-2 \sin (\theta)$
a. is a cardiod
b. has an inner loop
c. has a dent
d. is a circle
e. None of these.
7. The polar curve $r=3 \sin (4 \theta)$
a. is a flower with 2 petals
b. is a flower with 3 petals
c. is a flower with 4 petals
d. is a flower with 5 petals
e. None of these.
8. The polar curve $r=-5 \sin (2 \theta)$
a. is a flower with 2 petals
b. is a flower with 3 petals
c. is a flower with 4 petals
d. is a flower with 5 petals
e. None of these.
9. The polar curve $r=2 \cos (3 \theta)$
a. is a flower with 2 petals
b. is a flower with 3 petals
c. is a flower with 4 petals
d. is a flower with 5 petals
e. None of these.
10. The polar curve $r=3 \sin (5 \theta)$
a. is a flower with 2 petals
b. is a flower with 3 petals
c. is a flower with 4 petals
d. is a flower with 5 petals
e. None of these.
