EMCF18 - Math 1432, 13209

The answer sheet for this assignment can be found by logging into *CourseWare* at <u>http://www.casa.uh.edu</u>, 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.