

- Please see the course webpage for the answer key.

Carefully Sketch each of the following Polar Curves. **Show all work. Also show both the Cartesian Plot and the final Polar Plot. Label everything.**

1. $r = 3 \cos \theta$

2. $r = 4 \sin \theta$

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

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

EXTRA for fun:

5. $r = 1 + 2 \cos \theta$

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

7. $r = 3 \sin(2\theta)$