

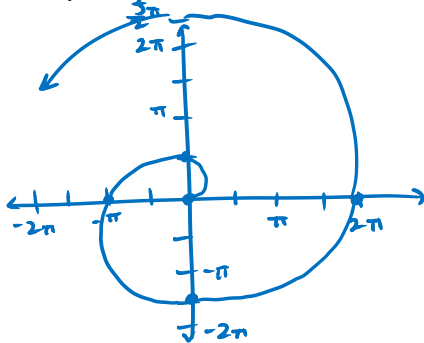
# POLAR CURVES

**OBJECTIVES:** 1) Graph polar equations.

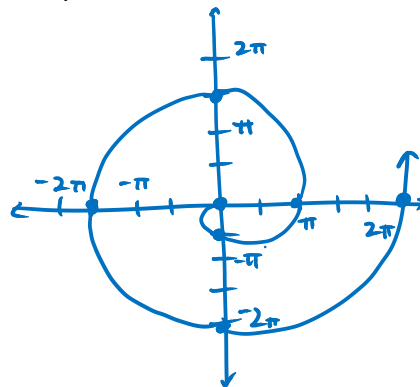
## GRAPHING TECHNIQUES

1) Graph the following:

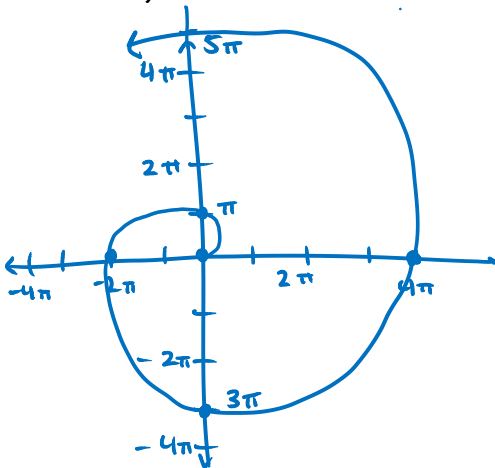
a)  $r = \theta$



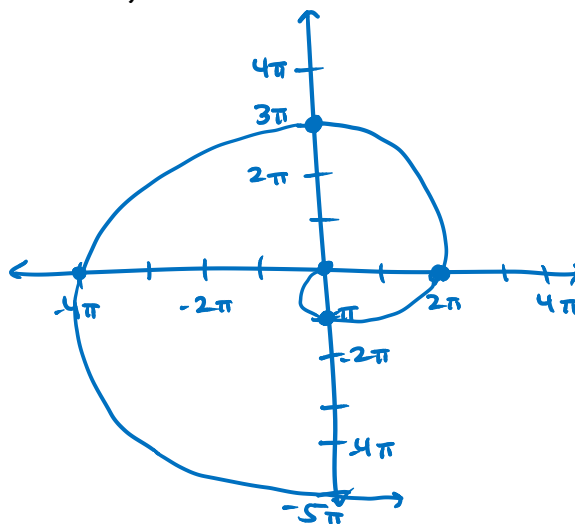
b)  $r = -\theta$



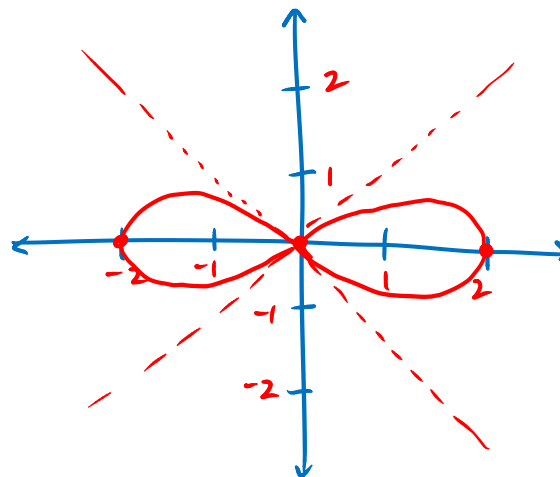
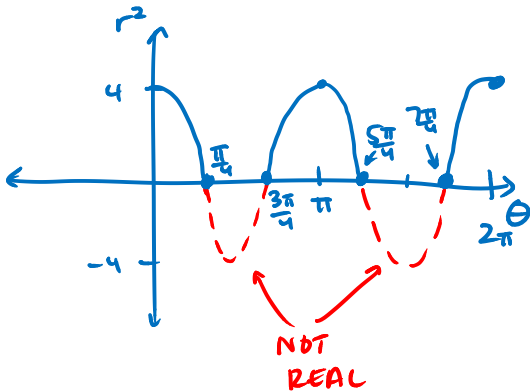
b)  $r = 2\theta$



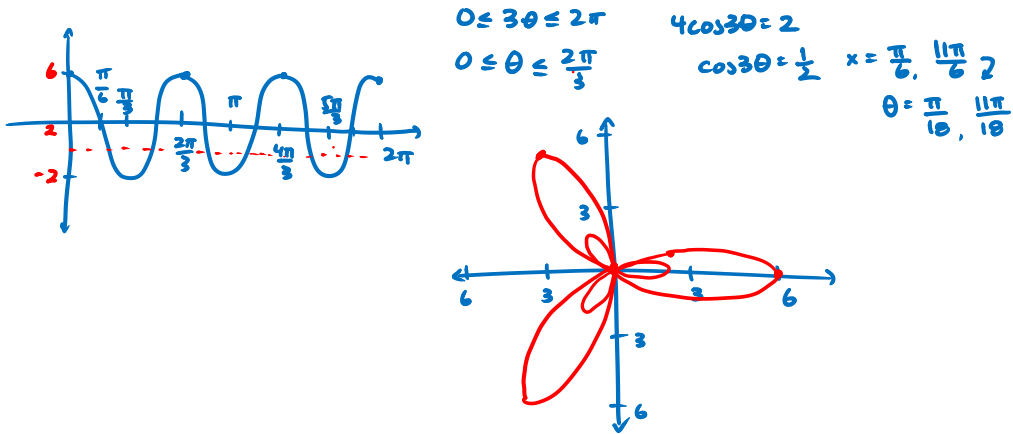
b)  $r = -2\theta$



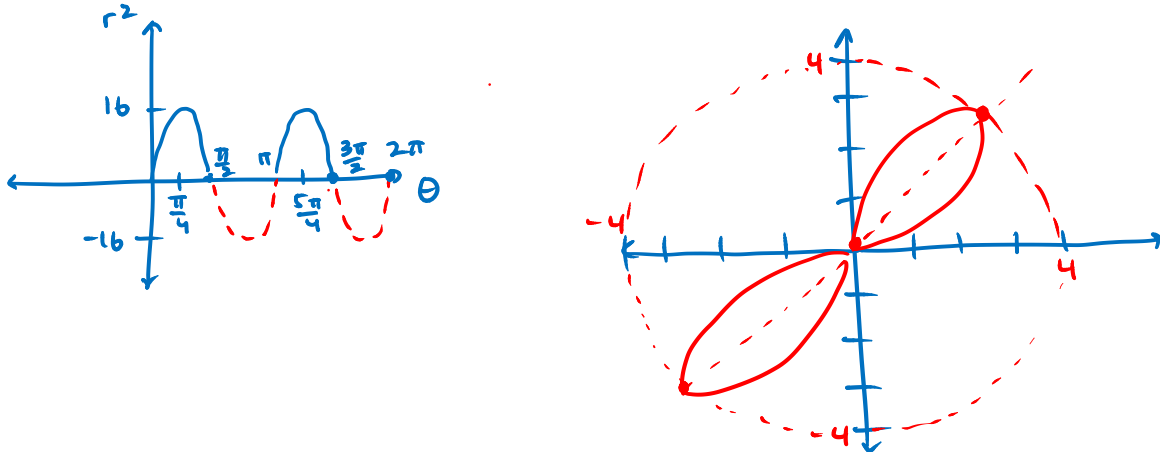
2) Graph  $r^2 = 4 \cos 2\theta$  as a rectangular function and a polar function.



3) Graph  $r = 4 \cos 3\theta + 2$  as a rectangular function and a polar function.



4) Graph  $r^2 = 16 \sin 2\theta$  as a rectangular function and a polar function.



5) Graph  $r^2 = -16 \sin 2\theta$  as a rectangular function and a polar function.

