

WORKSHEET FOR 4/17/2009

Exam 3: Exam 3 will be held Friday, May 1 during our normal class. It will cover sections 11.4-V.3 and possibly some stuff from chapter M (if we get it it).

Reading assignment. Review section V.2

Homework due Monday. V.2: 17, 19, 33, 41, 44, 52, 53

Exercises:

- (1) Graph (and label) the following points (polar coordinates) on the same graph.
 - (a) $(2, \pi)$
 - (b) $(1, \pi/4)$
 - (c) $(3, \pi/2)$
 - (d) $(0, 5)$
 - (e) $(2, 3\pi)$
 - (f) $(1, \pi/3)$
- (2) Convert the following (rectangular) points to polar coordinates:
 - (a) $(3, 4)$
 - (b) $(1, 1)$
 - (c) $(r \cos \theta, r \sin \theta)$
 - (d) $(r \sin \theta, r \cos \theta)$
 - (e) $(0, 1)$
- (3) Figure out how to graph polar functions on your calculator. Graph the function $r = \ln \theta$.
- (4) Find an equation in polar coordinates for $y = 4x$.