Assignment 3

Coverage: 15.4 in Text.

Exercises: 15.4. no 13, 15, 17, 19, 22, 24, 25, 27, 29, 30, 34, 35, 40, 42, 43, 46.

Submit no. 22, 24, 27, 35 by Sept 28.

Supplementary Problems

1. Express the straight line $ax+by = 1$, $a, b > 0$, in polar coordinates. How about $ax+by = 0$?

2. Express the hyperbola $x^2 - y^2 = 1$ $(y \geq 0)$ in polar coordinates? How about $xy = a^2 > 0$ in the first quadrant?