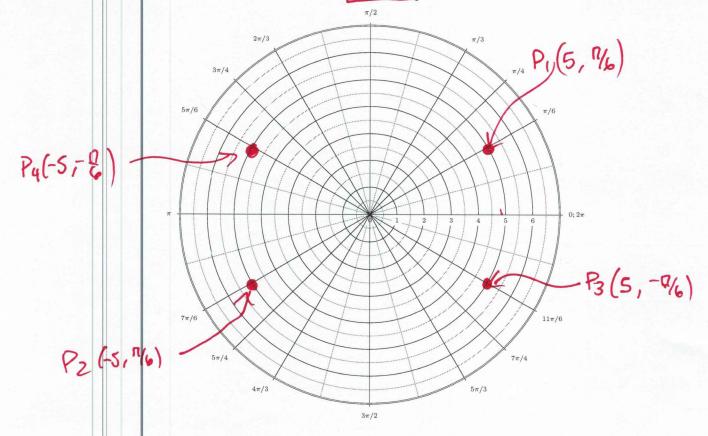
Should be (5,-7/6)

10. (a) Plot the points $P_1(5, \pi/6)$, $P_2(-5, \pi/6)$, $P_3(5, \pi/6)$, and $P_4(-5, -\pi/6)$.



(b) Describe the set of points P whose polar coordinates (r, θ) satisfy $0 \le r \le 2$ and $0 \le \theta \le \pi$.

This is the half disk, upper half: >> ATHITHA

(c) Convert the following points to polar coordinates:

(d) Convert the following points to rectangular/Cartesian coordinates:

 $\begin{array}{c}
(3, \pi/4), \quad (5, -\pi/6), \quad (-5, \pi/6), \quad (2, 0), \quad (2, 3). \\
(3, \pi/4), \quad (5, -\pi/6), \quad (-5, \pi/6), \quad (2, 0), \quad (2, 3). \\
(2, 0) \quad (2\cos(3), 2\sin(3)) \\
4 \quad (-5(3), -5) \\
4 \quad (-$