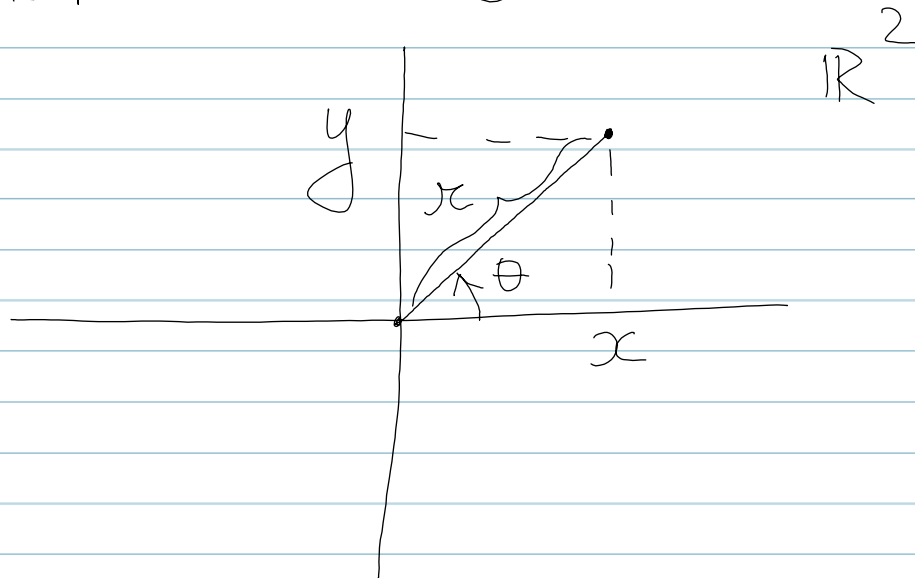


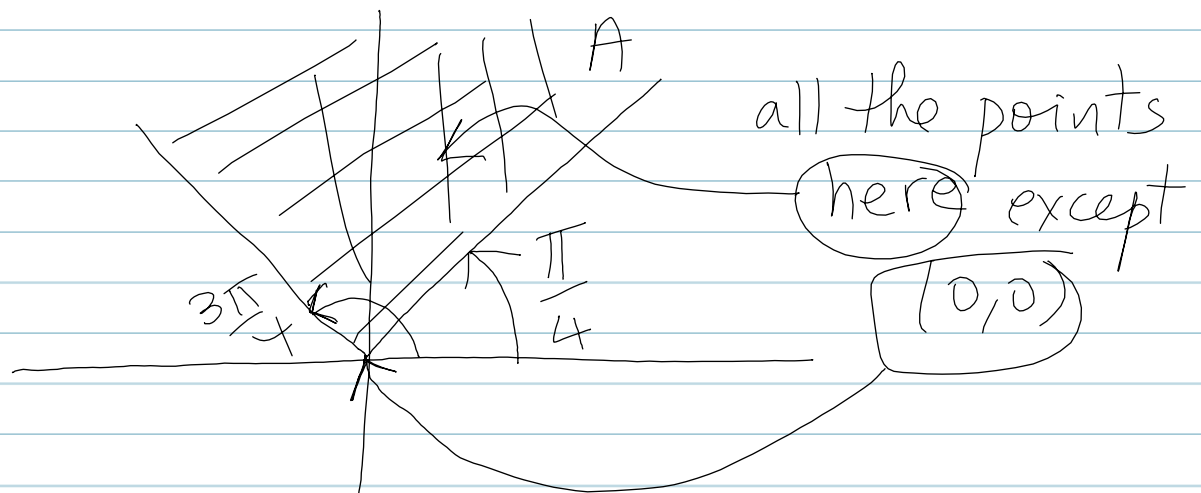
Polar coordinates



$$x = r \cos(\theta) \quad ; \quad y = r \sin(\theta)$$
$$r > 0$$

$(0, 0)$ cannot be written in polar coordinates.

Consider the set A of points such that $\theta \in \left[\frac{\pi}{4}, \frac{3\pi}{4}\right]$. Plot A .



Plot the set B of all points
of the plane such that
 $\theta \in \left[\pi + \frac{\pi}{4}, \pi + \frac{3\pi}{4} \right]$

