EE185 **Name _____**
Fall 2020
Game 18 10/14/20

Take your time and think Show your work in detail. Have a good scan

a) Given (x=4, y=9) find the representation of this in Polar (r, θ) *and then in complex both polar and rectangular*

b) Given $5e^{-j\frac{7\pi}{4}}$ find he equivalent in (r, θ) *and* (x, y) *and show your work*

c) Here is an interesting thing to think about if a complex number is a+jb and a=0 and b=-j what is the exponential form of this
   a. Remember $re^{j\theta} = rcos(\theta) + jrsin(\theta)$