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(a) Representing the complex number  $z = x + jy = jz_1 e^{j\theta}$  then  $jxj = jz_1 j \cos(\theta) j$  and since  $j \cos(\theta) j = 1$  then  $jxj = z_1$ , the equality holds when  $\theta = 0$  or when  $z = x$ , i.e., it is real.

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Load the data into Matlab using the command load DataEOG.txt Type whos to see your variables. One of the variables will be DataEOG. For convenience, rename it to x by typing: x = DataEOG; This signal comes from measuring electrical signals from the brain of a human subject. Make a stem plot of the signal x(n).

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