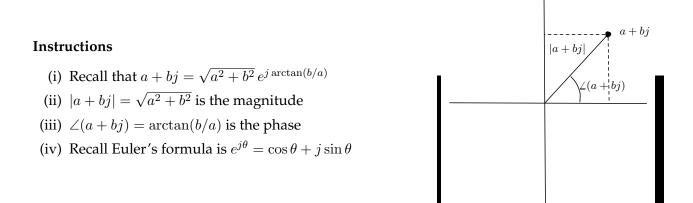
MAE140 - Linear Circuits - Fall 13 Quick quiz on complex numbers



1. Compute the magnitude and phase of the complex numbers 1 + j and 1 - j

2. Using your answer to Question 1, compute the magnitude and phase of

$$\frac{1+j}{1-j}$$

3. Match the numbers in the first column with the numbers in the second one

$$\begin{array}{ccc} j & e^{-j\pi} \\ -1 & e^{j\frac{\pi}{6}} \\ \frac{\sqrt{3}}{2} + \frac{j}{2} & e^{j\frac{\pi}{2}} \end{array}$$