Some miscellaneous complex number problems:
(a) Evaluate the complex number $z=\frac{j^{-1}-j^{-2}}{j^{-3}+j^{-4}}$.
(b) The following set defines a curve in the complex plane (i.e., the 2-D plane): $\{z:|z-j|=2\}$. Draw a sketch of this curve.
(c) The following set defines a curve in the complex plane (i.e., the 2-D plane): $\{z: \Im \mathfrak{I} m\{z\}=\pi\}$. Draw a sketch of this curve.

