## EE 3340 Homework Problem \#005

(a) Reduce $\mathbf{z}=\frac{2+j 3}{4+j 5}$ to simple rectangular form.
(b) Convert $\mathbf{z}=6.4-j 5.6$ to polar form, with the angle in degrees.
(c) Given $\mathbf{x}=3.1 e^{j 1.8}$ and $\mathbf{y}=-3.6+j 2.9$, determine $\mathbf{z}=\frac{\mathbf{x}}{\mathbf{y}}$ and express the result in exponential form with the angle in radians.

