## PROBLEM:

form. Let  $V = -\sqrt{3} - i3.$ 

(a) Express 
$$jV$$
 in polar form. In addition plot  $jV$  as a vector.

Simplify the following complex-valued expressions. In each case reduce the answers to a simple numerical

(b) Express the inverse of V in rectangular form. In addition plot  $\frac{1}{V}$  as a vector.

(c) If 
$$Z = \frac{|V|}{V^*}$$
, express Z in polar form. In addition plot Z as a vector.

(d) Express  $\Re\{j^3Ve^{j15t}\}\$  in the standard "cosine" form.