PROBLEM:

form. Let

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

$$V = -\frac{1}{\sqrt{3}} + j$$
.

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

- a) Express f(v) in polar form. In addition plot f(v) as a vector.
- (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.