

PROBLEM:

Simplify the following complex-valued expressions. Give your answer in **polar form**. Reduce the answers to a **simple** numerical form.

(a) For $W = -5 - j12$, express W in **polar form**. In addition, **plot** W as a vector.

(b) For $W = -5 - j12$, evaluate $\frac{W}{W^*}$. Give your answer in **polar form**.

(c) For $W = -5 - j12$, evaluate $\Re\{W e^{j9\pi t}\}$. Reduce the answer to a **sinusoidal** formula.