- PROBLEM:
- Consider the complex signal $z(t) = Ze^{j2t}$.

- (a) Show that the first derivative of z(t) with respect to time can be represented as $\dot{z}(t) = Qe^{j2t}$ and

- determine an expression for the phasor Q in terms of Z.
- (b) If Z = -3 i4, plot the phasors Z and Q.