

Chapter 9, Problem 13.

Evaluate the following complex numbers:

$$(a) \frac{(2 + j3)}{1 - j6} + \frac{(7 - j8)}{-5 + j11}$$

$$(b) \frac{(5 \angle 10^\circ)(10 \angle -40^\circ)}{(4 \angle -80^\circ)(-6 \angle 50^\circ)}$$

$$(c) \begin{vmatrix} 2 + j3 & -j2 \\ -j2 & 8 - j5 \end{vmatrix}$$