

Chapter 9, Problem 14.

Evaluate the following complex numbers:

$$(a) \frac{(5 - j6) - (2 + j8)}{(-3 + j4)(5 - j) + (4 - j6)}$$

$$(b) \frac{(240 \angle 75^\circ + 160 \angle -30^\circ)(60 - j80)}{(67 + j84)(20 \angle 32^\circ)}$$

$$(c) \left[\frac{10 + j20}{3 + j4} \right]^2 \sqrt{(10 + j5)(16 - j20)}$$