Chapter 9, Solution 9.

(a)
$$(5\angle 30^{\circ})(6 - j8 + 1.1197 + j0.7392) = (5\angle 30^{\circ})(7.13 - j7.261)$$
$$= (5\angle 30^{\circ})(10.176\angle - 45.52^{\circ}) =$$

(b)
$$\frac{(10\angle 60^{\circ})(35\angle -50^{\circ})}{(-3+j5) = (5.83\angle 120.96^{\circ})} = 60.02\angle -110.96^{\circ}.$$