

**Problem 1.18** Complex numbers  $z_1$  and  $z_2$  are given by

$$z_1 = 5\angle -60^\circ,$$

$$z_2 = 2\angle 45^\circ.$$

(c) Determine the ratio  $z_1/z_2$  in polar form.

**Solution:**

$$(c) \frac{z_1}{z_2} = \frac{5e^{-j60^\circ}}{2e^{j45^\circ}} = 2.5^{-j105^\circ}.$$