**Homework 10**

**Problem 2.47** Use the Smith chart to find the reflection coefficient corresponding to a load impedance of
(a) \( Z_L = 3Z_0 \)
(b) \( Z_L = (2-j2)Z_0 \)

**Problem 2.49** Use the Smith chart to find the normalized load impedance corresponding to a reflection coefficient of
(a) \( \Gamma = 0.5 \)
(b) \( \Gamma = 0.5 \angle 60^\circ \)
(c) \( \Gamma = -1 \)
(d) \( \Gamma = 0.3 \angle -30^\circ \)
(e) \( \Gamma = 0 \)
(f) \( \Gamma = j \)