EE381 HW3
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2.47

(a) $\Gamma = 0.5\angle 0°$
(b) $\Gamma = 0.62\angle -29.74°$
(c) $\Gamma = 1\angle -53.13°$
(d) $\Gamma = 1\angle 180°$

2.53

(a) $\Gamma = 0.24\angle 75°$
(b) $SWR = 1.65$
(c) $z(0.35\lambda) = 0.61 - j0.05$
(d) $y(0.35\lambda) = 1.65 + j0.05$
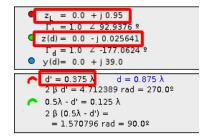**(e)** $d = 0.105\lambda$
(f) $d(max) = 0.105\lambda$

2.54

(a) $\Gamma = 0.24\angle 76°$
(b) $SWR = 1.64$
(c) $z(0.35\lambda) = 0.61 - j0.02$
(d) $y(0.35\lambda) = 1.64 + j0.06$
(e) $d = 0.105\lambda$
(f) $d(max) = 0.105\lambda$

2.58

(a) $Z_L = \boxed{j0.95 \cdot Z_0} = 95\Omega$

(b)

2.65