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1. $v_o = i_s \cdot R_1 \parallel R_2 - v_s$
 2. a) $R_2 = 2 \text{ k}\Omega$
b) $v_s = -1 \text{ V}$
 3. $R_{in} = 1 \text{ k}\Omega$
 4. $V_{Th} = 10 \text{ V}$
 $R_{Th} = 5 \text{ k}\Omega$
 5. a) $R_L = 5 \text{ k}\Omega$
b) $p_{max} = 5 \text{ mW}$