$$Z_{TH} = (2-j) / (1+2j) = \frac{1}{2-j} + \frac{1}{1+2j}$$

$$= \frac{(2-j)(1+2j)}{2-j+1+2j} = \frac{2-j+4j+2}{3+j} \cdot \frac{3-j}{3-j}$$

$$= \frac{1}{10} \cdot (4+3j)(3-j)$$

$$= \frac{1}{10} \cdot (12+3j-4j+3)$$

$$= 1.5 + 0.5j$$

$$Z_{L} = 1.5 - 0.5j$$