## Chapter 9, Solution 57.

2H 
$$\longrightarrow j\omega L = j2$$
  
1F  $\longrightarrow \frac{1}{j\omega C} = -j$   
 $Z = 1 + j2//(2 - j) = 1 + \frac{j2(2 - j)}{j2 + 2 - j} = 2.6 + j1.2$ 

$$Y = \frac{1}{Z} = 0.3171 - j0.1463 \text{ S}$$