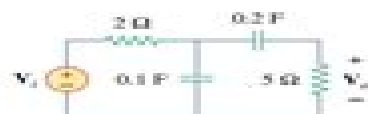


### Chapter 14, Problem 3.

For the circuit shown in Fig. 14.70, find  $H(s) = V_o/V_i(s)$ .



**Figure 14.70**

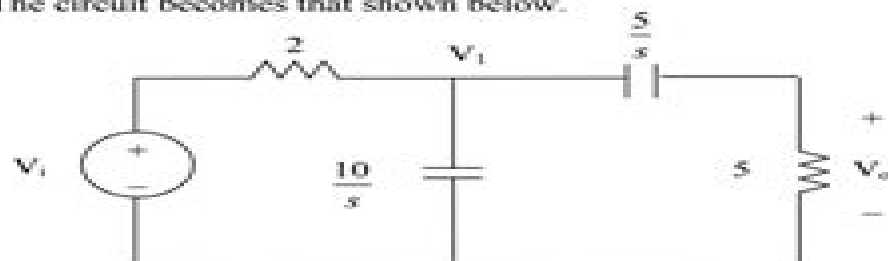
For Prob. 14.3.

### Chapter 14, Solution 3.

$$0.2F \longrightarrow \frac{1}{j\omega C} = \frac{1}{s(0.2)} = \frac{5}{s}$$

$$0.1F \longrightarrow \frac{1}{s(0.1)} = \frac{10}{s}$$

The circuit becomes that shown below.



$$\text{Let } Z = \frac{10}{s} // (5 + \frac{5}{s}) = \frac{\frac{10}{s}(5 + \frac{5}{s})}{5 + \frac{15}{s}} = \frac{\frac{10}{s} 5(\frac{1+s}{s})}{\frac{5}{s}(3+s)} = \frac{10(s+1)}{s(s+3)}$$

$$V_1 = \frac{Z}{Z+2} V_i$$

$$V_o = \frac{5}{5+5/s} V_1 = \frac{s}{s+1} V_1 = \frac{s}{s+1} \cdot \frac{Z}{Z+2} V_i$$

$$H(s) = \frac{V_o}{V_i} = \frac{s}{s+1} \cdot \frac{\frac{10(s+1)}{s(s+3)}}{2 + \frac{10(s+1)}{s(s+3)}} = \frac{10s}{2s(s+3) + 10(s+1)} = \frac{5s}{s^2 + 8s + 5}$$

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