$$\left\{ L_{1}=3/2 \quad C_{2}=4/3 \quad L_{3}=1/2 \quad R=1 \right\}$$

$$T = \begin{pmatrix} \frac{2i+22}{22} & 2i \\ \frac{1}{22} & 1 \end{pmatrix}$$

$$T_{1} = \begin{pmatrix} \frac{SL_{1} + \frac{1}{SC_{2}}}{\frac{1}{SC_{2}}} & SL_{1} \\ \frac{1}{2} & \frac{1}{2} \end{pmatrix} = \begin{pmatrix} S^{2}L_{1}C_{2} + 1 & SL_{1} \\ SC_{2} & 1 \end{pmatrix} = \begin{pmatrix} S^{2}.2 + 1 & S.3/2 \\ SC_{2} & 1 \end{pmatrix}$$

$$T_2 = \begin{pmatrix} \frac{SL_3 + R}{R} & SL_3 \\ \frac{1}{R} & 1 \end{pmatrix} = \begin{pmatrix} S \cdot \frac{1}{2} + 1 & S \cdot \frac{1}{2} \\ 1 & 1 \end{pmatrix}$$

$$T_{TOT} = \begin{pmatrix} (2S^{2}+1)(\frac{S}{2}+1) + (\frac{3}{2}S) \cdot (1) & (2S^{2}+1)(\frac{S}{2}) + (\frac{3}{2}S)(1) \\ (S \cdot \frac{1}{3})(\frac{S}{2}+1) + (1)(1) & (S \cdot \frac{1}{3})(\frac{S}{2}) + (1)(1) \end{pmatrix}$$

$$\frac{V_0}{V_c}\bigg|_{x_0=0} = \frac{1}{A} = \frac{1}{S^3 + 2S^2 + S/2 + 1 + 3S/2} = \frac{1}{S^3 + 2S^2 + 2S + 1}$$