$$K_{q_{0}}(\frac{R^{2}}{4L} - \frac{1}{K} - \frac{R}{K}) + R(-\frac{aR}{2L}) + \frac{q_{0}}{2} = 0$$

$$\emptyset = q_{0}\{(\frac{R^{2}}{4L} - \frac{1}{K} - \frac{R}{2} - \frac{R^{2}}{2L} + \frac{1}{K}) = (\frac{R^{2}}{4L} - \frac{R}{2} - \frac{R^{2}}{2L})$$

$$\emptyset = q_{0}\{(\frac{R^{2}}{4L} - \frac{1}{K} - \frac{1}{2}) = \frac{q_{0}R}{2L}\{\frac{1}{2L} - \frac{R}{2} - \frac{1}{2}\}$$

$$\frac{R}{2L} - \frac{R}{2L} = 1$$

$$\frac{R}{2} - R = 1$$

$$R = -2L = -10H$$

$$R = -2L = -10H$$

$$L = 5H, C = 10^{-4}F, \frac{q_{0}}{4} = 0.01, t = 0.05$$

$$a = \frac{1}{2L} \quad b = \frac{1}{4L} \quad d = \frac{1}{4L}$$

$$f(R) = e^{-4R} \cos(\sqrt{d} - bR^{2}t) + \frac{bRt}{\sqrt{d} - bR^{2}} e^{-4R} \sin(\sqrt{d} - bR^{2}t)$$

$$\begin{cases} d_{0} \cos(\sqrt{d} - bR^{2}t) + \frac{bRt}{\sqrt{d} - bR^{2}} e^{-4R} \sin(\sqrt{d} - bR^{2}t) \\ d_{0} \cos(\sqrt{d} - bR^{2}t) + \frac{bRt}{\sqrt{d} - bR^{2}} \sin(\sqrt{d} - bR^{2}t) \end{cases}$$

$$\begin{cases} d_{0} \cos(\sqrt{d} - bR^{2}t) + \frac{bRt}{\sqrt{d} - bR^{2}} e^{-4R} \sin(\sqrt{d} - bR^{2}t) \\ d_{0} \cos(\sqrt{d} - bR^{2}t) + \frac{bRt}{\sqrt{d} - bR^{2}} \sin(\sqrt{d} - bR^{2}t) \end{cases}$$