$$t^{r-1} \xrightarrow{\varphi_{0}} = 0 \longrightarrow r(r+1)\alpha_{0} = 0 \xrightarrow{Q_{0}} \xrightarrow{Q_{0}$$

$$L^{-1}\left\{\frac{1}{(S+1)^{2}+1}\right\} = e^{-t}L^{-1}\left\{\frac{1}{S^{2}+1}\right\} = e^{-t}.Sint(B)$$

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A-
$$\lambda I = \begin{bmatrix} -\lambda & 1 & 1 \\ 1 & -\lambda & 1 \end{bmatrix} \xrightarrow{\det(A-AI)} (\lambda + 1)(\lambda + 1 - \lambda^{2}) = 0 \xrightarrow{A_{F}A_{V}} (\lambda + 1)(\lambda + 1 - \lambda^{2}) = 0 \xrightarrow{A_{F}A_{V}} (\lambda + 1)(\lambda + 1 - \lambda^{2}) = 0 \xrightarrow{A_{F}A_{V}} (\lambda + 1)(\lambda + 1 - \lambda^{2}) = 0 \xrightarrow{A_{F}A_{V}} (\lambda + 1)(\lambda + 1 - \lambda^{2}) = 0 \xrightarrow{A_{F}A_{V}} (\lambda + 1)(\lambda + 1 - \lambda^{2}) = 0 \xrightarrow{A_{F}A_{V}} (\lambda + 1)(\lambda + 1 - \lambda^{2}) = 0 \xrightarrow{A_{F}A_{V}} (\lambda + 1)(\lambda + 1 - \lambda^{2}) = 0 \xrightarrow{A_{F}A_{V}} (\lambda + 1)(\lambda + 1 - \lambda^{2}) = 0 \xrightarrow{A_{F}A_{V}} (\lambda + 1)(\lambda + 1 - \lambda^{2}) = 0 \xrightarrow{A_{F}A_{V}} (\lambda + 1)(\lambda + 1 - \lambda^{2}) = 0 \xrightarrow{A_{F}A_{V}} (\lambda + 1)(\lambda + 1 - \lambda^{2}) = 0 \xrightarrow{A_{F}A_{V}} (\lambda + 1)(\lambda + 1 - \lambda^{2}) = 0 \xrightarrow{A_{F}A_{V}} (\lambda + 1)(\lambda + 1 - \lambda^{2}) = 0 \xrightarrow{A_{F}A_{V}} (\lambda + 1)(\lambda + 1 - \lambda^{2}) = 0 \xrightarrow{A_{F}A_{V}} (\lambda + 1)(\lambda + 1 - \lambda^{2}) = 0 \xrightarrow{A_{F}A_{V}} (\lambda + 1)(\lambda + 1 - \lambda^{2}) = 0 \xrightarrow{A_{F}A_{V}} (\lambda + 1)(\lambda + 1 - \lambda^{2}) = 0 \xrightarrow{A_{F}A_{V}} (\lambda + 1)(\lambda + 1 - \lambda^{2}) = 0 \xrightarrow{A_{F}A_{V}} (\lambda + 1)(\lambda + 1 - \lambda^{2}) = 0 \xrightarrow{A_{F}A_{V}} (\lambda + 1)(\lambda + 1 - \lambda^{2}) = 0 \xrightarrow{A_{F}A_{V}} (\lambda + 1)(\lambda + 1 - \lambda^{2}) = 0 \xrightarrow{A_{F}A_{V}} (\lambda + 1)(\lambda + 1 - \lambda^{2}) = 0 \xrightarrow{A_{F}A_{V}} (\lambda + 1)(\lambda + 1 - \lambda^{2}) = 0 \xrightarrow{A_{F}A_{V}} (\lambda + 1)(\lambda + 1 - \lambda^{2}) = 0 \xrightarrow{A_{F}A_{V}} (\lambda + 1)(\lambda + 1 - \lambda^{2}) = 0 \xrightarrow{A_{F}A_{V}} (\lambda + 1 - \lambda^{2}) = 0 \xrightarrow{A_{F}A_{V}} (\lambda + 1)(\lambda + 1 - \lambda^{2}) = 0 \xrightarrow{A_{F}A_{V}} (\lambda + 1$$