Introduce Laplace:

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$$L_{3} y^{(n)} = S^{n} L_{3} Y_{3} - S^{n-1} y^{(n)} - S^{n-2} y^{(n)} - S^{n-3} y^{(n)} - S^{n-1} y^{(n)} - S^{n-1} y^{(n)} = S^{n-1} y^{$$

$$L\{Y^{(1)}\} = S^{4}L\{Y\} - S^{3}Y(0) - S^{2}Y'(0) - S^{1}Y''(0) - S^{0}Y'''(0)$$

$$L\{Y'''\}=5^3L\{Y\}-5^2Y(0)-5^1Y'(0)-5^0Y''(0)$$

$$\int_{0}^{2} \{Y^{2}\} = \int_{0}^{2} \int_{0}^{2} \int_{0}^{2} \{Y^{2}\} - \int_{0}^{1} Y(0) - \int_{0}^{2} Y'(0)$$

$$\int_{0}^{2} \{Y^{2}\} = \int_{0}^{2} \int_{0}^{2} \int_{0}^{2} \{Y^{2}\} - \int_{0}^{1} Y(0) - \int_{0}^{2} Y'(0)$$

$$L\{Y'\}=S^{1}L\{Y\}-S^{0}Y(0)$$

$$L\{Y'\} = S^1 L\{Y\} = 3 / 69$$

$$L\{Y\} = 5^0 L\{Y\} = 1 \cdot Y = Y$$

Lo
$$\{F(t)\}=f(s)$$

Lo $\{Y(t)\}=Y(s)$
Lo $\{Y\}=Y$