hisobo $\int \frac{\int y'' + 4y}{\int y'(0) = 1} \frac{\int y'(0) = 1}{\int y'(0) = 0} \frac{\int y'(0) = 0}{\int y'(0) = 0}$ 11+)=3H(t-4 $\frac{P_{6}}{S^{2}} = \frac{1}{S} = \frac{1}{S$

9 5 + 4 Cos(2+ $\begin{array}{l} O(s^{*}) \ A = -B \ O(s) : C = 0 \ O(i) \ A = \frac{3}{4} \\ P_{6} = H \left[(t - 4) \frac{3}{4} \left[1 - i \cos 2(t - 4) \right] + \cos 2t = Y \\ M as + s p d_{i} + np \end{array}$ = co 2 t= $co s(2t) + \frac{3}{2} E_{1} = co s(2t) + \frac{3}{2} E_{1} = co s(2t)$

Dealing with jamps $\begin{aligned}
f &= f_1 + H(t - a)(f_2 - f_1) + H(t - b)(f_3 - f_2) \\
&+ H(t - c)(f_4 - f_3) - -- \\
&\in g. \ Pulse:
\end{aligned}$ f = H(t - a)C

Example: $\begin{array}{l}
\frac{g(t)=cos(t+2)-1}{g(t)=cos(t+2)-1} \\
f(t)=\int for \ 0 \leq t \leq 7 \\
cos(t)\int or \ 7 \leq t
\end{array}$ $\begin{aligned}
& = 1 + H(t - 7) \left\{ \frac{\cos t - 1}{\sin t} + \frac{1}{t - 7} \right\} \\
& = 1 + H(t - 7) \left\{ \cos(t - 7 + 7) - 1 \right\} \\
& = 1 + H(t - 7) \left\{ \cos(t - 7 + 7) - 1 \right\} \\
& = 1 + e^{-7s} \quad \text{if } P_{6} \quad (t + 7) - 1 \\
& = 1 + e^{-7s} \quad \text{if } P_{6} \quad (t + 7) - 1 \\
& = 1 + e^{-7s} \quad \text{if } P_{6} \quad (t + 7) - 1 \\
& = 1 + e^{-7s} \quad \text{if } P_{6} \quad (t + 7) - 1 \\
& = 1 + e^{-7s} \quad \text{if } P_{6} \quad (t + 7) - 1 \\
& = 1 + e^{-7s} \quad \text{if } P_{6} \quad (t + 7) - 1 \\
& = 1 + e^{-7s} \quad \text{if } P_{6} \quad (t + 7) - 1 \\
& = 1 + e^{-7s} \quad \text{if } P_{6} \quad (t + 7) - 1 \\
& = 1 + e^{-7s} \quad \text{if } P_{6} \quad (t + 7) - 1 \\
& = 1 + e^{-7s} \quad \text{if } P_{6} \quad (t + 7) - 1 \\
& = 1 + e^{-7s} \quad \text{if } P_{6} \quad (t + 7) - 1 \\
& = 1 + e^{-7s} \quad \text{if } P_{6} \quad (t + 7) - 1 \\
& = 1 + e^{-7s} \quad \text{if } P_{6} \quad (t + 7) - 1 \\
& = 1 + e^{-7s} \quad \text{if } P_{6} \quad (t + 7) - 1 \\
& = 1 + e^{-7s} \quad \text{if } P_{6} \quad (t + 7) - 1 \\
& = 1 + e^{-7s} \quad \text{if } P_{6} \quad (t + 7) - 1 \\
& = 1 + e^{-7s} \quad \text{if } P_{6} \quad (t + 7) - 1 \\
& = 1 + e^{-7s} \quad \text{if } P_{6} \quad (t + 7) - 1 \\
& = 1 + e^{-7s} \quad \text{if } P_{6} \quad (t + 7) - 1 \\
& = 1 + e^{-7s} \quad \text{if } P_{6} \quad (t + 7) - 1 \\
& = 1 + e^{-7s} \quad \text{if } P_{6} \quad (t + 7) - 1 \\
& = 1 + e^{-7s} \quad \text{if } P_{6} \quad (t + 7) - 1 \\
& = 1 + e^{-7s} \quad \text{if } P_{6} \quad (t + 7) - 1 \\
& = 1 + e^{-7s} \quad \text{if } P_{6} \quad (t + 7) - 1 \\
& = 1 + e^{-7s} \quad \text{if } P_{6} \quad (t + 7) - 1 \\
& = 1 + e^{-7s} \quad \text{if } P_{6} \quad (t + 7) - 1 \\
& = 1 + e^{-7s} \quad \text{if } P_{6} \quad (t + 7) - 1 \\
& = 1 + e^{-7s} \quad \text{if } P_{6} \quad (t + 7) - 1 \\
& = 1 + e^{-7s} \quad \text{if } P_{6} \quad (t + 7) - 1 \\
& = 1 + e^{-7s} \quad \text{if } P_{6} \quad (t + 7) - 1 \\
& = 1 + e^{-7s} \quad (t + 7) - 1 \\
& = 1 + e^{-7s} \quad (t + 7) - 1 \\
& = 1 + e^{-7s} \quad (t + 7) - 1 \\
& = 1 + e^{-7s} \quad (t + 7) - 1 \\
& = 1 + e^{-7s} \quad (t + 7) - 1 \\
& = 1 + e^{-7s} \quad (t + 7) - 1 \\
& = 1 + e^{-7s} \quad (t + 7) - 1 \\
& = 1 + e^{-7s} \quad (t + 7) - 1 \\
& = 1 + e^{-7s} \quad (t + 7) - 1 \\
& = 1 + e^{-7s} \quad (t + 7) - 1 \\
& = 1 + e^{-7s} \quad (t + 7) - 1 \\
& = 1 + e^{-7s} \quad (t + 7) - 1 \\
& = 1 + e^{-7s} \quad (t + 7) - 1 \\
& = 1 + e^{-7s} \quad (t + 7) - 1 \\
& = 1 + e^{-7s} \quad (t + 7) - 1 \\
& = 1 + e^{-$

+e-7 Convolution theorem P8 $\int \frac{1}{3} \int \frac{1}{3} \int$ do not write as f#g:illegal Do not use unless unavoidable Created with Doceri

Erample 10)=0 Y(0) = Y HLS) nnaroidable here of real rails S use Partial complex voots complete the 3ú 52 SGUAN rools Created with Doceri

 $(s_{-2})(s_{-3})$ $= \frac{A}{S-2} + \frac{B}{S-3} = \frac{AS-3A+BS-2B}{(S-2)(S-3)}$ 52-55+6 $\begin{array}{l} O(s) \ A = -B \\ O(l) \ B = l \end{array}$ ZA=-1 $\hat{g}_{s}^{(s)} = \frac{1}{s^2 - s^2} = \frac{1}{s^2 -$ GL+ -T) Green's (an dean Created with Doceri