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The solution is $x(t) = 0.25e^{-2t} + 0.25 + 0.5t$ e) $1 t^2 + 2 t^3 - 2$
 $[r,p,k] = \text{residue}([4,3],[1,6,34,0])$ The result is $r = [-0.0441 - 0.3735i, -0.0441 + 0.3735i, 0.0882]$, $p = [-3.0000 + 5.0000i, -3.0000 - 5.0000i, 0]$, and $k = []$. The solution is $x(t) = (0.0441 - 0.3735j)e^{(-3+5j)t} + (0.0441 + 0.3735j)e^{(-3-5j)t} + 0.0882$ The

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solution is $x(t) = 2e^{-3t} (0.0441 \cos 5t + 0.3735 \sin 5t) + 0.0882$
(continued on the next page)

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Full file at <https://testbanku.eu/Solution-Manual-for-System-Dynamics-3rd-Edition-by-Palm>. 1.25 (a) If $C(t) = C(0) = 0.5$ when $t = 500$ years, then $0.5 = e^{-500b}$, which gives $b = \ln(0.5)/-500 = 1.2603 \times 10^{-4}$. (b) Solve for t to obtain $t = \ln[C(t) = C(0)] / -b = \ln(0.9) / -1.2603 \times 10^{-4}$. The answer is 836 years.

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$x(t) = 13e^{-7t} \sin 3t + 4e^{-7t} \cos 3t$ From the initial value theorem $x(0^+) = \lim_{s \rightarrow \infty} s \cdot 1 / (s^2 + 67s + 14s + 58) = 4$ which is the same as $x(0)$.

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However, the initial value theorem is invalid for computing $x_{-}(0+)$ and gives an undefined result because the order of the numerator of $X(s)$ is greater than the denominator.

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The solution for the forced response is $x_{\text{forced}}(t) = 0.0034te^{-3t}\sin 5t + 0.0066te^{-3t}\cos 5t + 0.0026e^{-3t}\sin 5t + 2.308 \times 10^{-4}e^{-3t}\cos 5t + 0.00796 \sin 0.866t + 2.308 \times 10^{-4}\cos 0.866t$. The initial condition $x(0) = 0$ is not exactly satisfied by this expression because of the limited number of digits used to display it.

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