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The characteristic equation derived earlier becomes
 $s^2 + 2s + 3 + 1 = 0.01s^2 + 0.3s + 1 = 0$ whose roots are
 $s = -26.18$ and $s = -3.82$. The dominant time constant is
 $1/3.82 = 0.262$, and thus we would expect the steady-
state response to be reached in about $4(0.262) = 1.04$

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s. The scope plot confirms this. 16.

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system dynamics deals with mathematical modeling and analysis of devices and processes for the purpose of understanding their time-dependent behavior. While other subjects, such as Newtonian dynamics and electrical circuit theory, also deal with

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Sample questions asked in the 3rd edition of System Dynamics: Consider the two-mass model shown in Figure P11.50. Use the following numerical values: $m_1 = m_2 = 1$, $k_1 = 1$, $k_2 = 4$, and $c_2 = 8$. a. Use MATLAB to obtain the root locus plot in terms of the parameter c_1 . b.

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$2 + + + = + s s B s C s A X s. 1 = A(s^2 + 3s + 1) + Bs^2 + Cs$
 $0 3 () 0 (2) A C$
by equating the coefficient of $s = + - = + - . 1, 1, 3 3 3 1 0 1 () = = - = - = - = - = - + = = - A B C C A B A B$
by equating the coefficient of const. $+ + + - = - - 3 1 1 3 \{ () \} 2 1 1 s s s s L X s L.$

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Solution Manual for System Dynamics - 3rd and 4th edition Author (s): Katsuhiko Ogata Please note that Solution Manuals for 3rd and 4th Edition are sold separately Solution manual for 4th edition includes all problems (From chapter 2 to chapter 11).

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Evaluating C_1 and C_2 for the initial conditions gives 5
 $5 \ 5 \ x(t) = -e^{-3t} + e^{-7t} + 36 \ 84 \ 63$ b) The roots are
 -7 and -7 . The form is $x(t) = C_1 e^{-7t} + C_2 t e^{-7t} +$
 C_3 At steady state, $x = 98/49 = 2$ so $C_3 = 2$.
Evaluating C_1 and C_2 for the initial conditions gives x
 $(t) = -2e^{-7t} - 14te^{-7t} + 2$ c) The roots are $-7 \pm 3j$.

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

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2.3 a) $Z \times 3 \frac{dx}{dt} + 25x = 25 \int_0^t dt = t$ $Z \times 3 \frac{dx}{dt} + 25x = p 5$
 $25 \int \frac{dx}{x} + \frac{dx}{dt} = \frac{1}{p 5} \int dt$ $\arctanh \frac{3}{p 5} \frac{dx}{dt} = t$ Let $C = \arctanh \frac{3}{p 5}$ Solve for x to obtain $x = p 5 \tanh(5 p 5t + C)$
 b) $Z \times 10 \frac{dx}{dt} + 4x = 25 \int_0^t dt = t$

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