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The solution is  $x(t) = -0.25e^{-2t} + 0.25 + 0.5t - e^{-t} + t^2 + 2t^3$   
 $[r,p,k] = \text{residue}([4,3],[1,6,34,0])$  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

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$x(t) = (-0.0441 - 0.3735j)e^{(-3+5j)t} + (-0.0441 + 0.3735j)e^{(-3-5j)t} + 0.0882$  The 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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The characteristic equation derived earlier becomes  $s^2 + 2s + 3 + 0.01s^2 + 0.3s + 1 = 0$  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  $4(0.262) = 1.04$  s. The scope plot confirms this. 16.

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Sample questions asked in the 3rd edition of System



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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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1) You can substitute the form (5) into the differential

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equation and use the initial conditions to obtain equations for the  $C_i$  coefficients. 2) You can use (1) and (2) to create a partial fraction expansion of (4) in terms of the complex factors. 3) You can perform an expansion in terms of the six roots, of the form  $A_1$ .

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