

## System Dynamics William Palm Solution Manual

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Because the initial values can be arbitrary, the general form of the solution is  $y(t) = e^{\lambda t} + A_1 \sin t + A_2 \cos t$  (1) 2 This form can be used to obtain a solution for cases where  $y(t)$  or  $\dot{y}(t)$  are specified at points other than  $t = 0$ .

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1.26 Only the semilog plot of the data gives something close to a straight line, so the data is best described by an exponential function  $y = b(10)^{mx}$  where  $y$  is the temperature in degrees C and  $x$  is the time in seconds.

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2.3 a)  $Z \times 3 \frac{dx}{dt} + 25x = 25$   $Z \times 3 \frac{dx}{dt} + 25x = 25$   $\arctanh \frac{p}{5} = \arctanh \frac{3}{5}$   $\# = t$  Let  $C = \arctanh \frac{3}{5}$  Solve for  $x$  to obtain  $x = 5 \tanh(5p - 5t + C)$  b)  $Z \times 10 \frac{dx}{dt} + 36x = 4$   $Z \times 10 \frac{dx}{dt} + 36x = 4$

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The solution is  $x(t) = 0.25e^{-2t} + 0.25 + 0.5t e^{-t}$   $[r,p,k] = \text{residue}([4,3],[1,6,34,0])$  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 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  $s^2 + 3s + 1 = 0.01s^2 + 0.3s + 1 = 0$  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  $4(0.262) = 1.04$  s. The scope plot confirms this. 16.

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