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continued: Because the initial values can be arbitrary, the general form of the solution is $y(t) = e^{-t} + A_1 \sin t + A_2 \cos t$ (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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2.3 a) $Z \times 3 \, dx \, 25 \, 5 \times 2 \, Z \, t \, 0 \, dt = t \, Z \, x \, 3 \, dx \, 25 \, 5 \times 2 \, p \, 5 \, 25 \, "$ $\arctanh \, p \, 5 \times 5! \, \arctanh \, 3 \, p \, 5 \, 5! \, \# = t$ Let $C = \arctanh \, 3 \, p \, 5 \, 5!$ Solve for x to obtain $x = p \, 5 \, \tanh(5 \, p \, 5 \, t + C)$ b) $Z \, x \, 10 \, dx \, 36 + 4 \times 2 \, Z \, t \, 0 \, dt = t$

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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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The characteristic equation derived earlier becomes $s^2 + 2s + 1 = 0$ whose roots are $s = -1 \pm j$. 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.

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The solution is $x(t) = 0.25e^{-2t} + 0.25 + 0.5t$. 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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