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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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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) $\int \frac{dx}{25 - 5x^2} = \int \frac{dt}{t}$ $\Rightarrow \frac{1}{5} \operatorname{arctanh} \frac{x}{5} = \ln t + C$
Let $C = \operatorname{arctanh} \frac{3}{5}$ Solve for x to
obtain $x = 5 \tanh(5 \ln t + C)$ b) $\int \frac{dx}{36 + 4x^2} = \int \frac{dt}{t}$

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The solution is $x(t) = -0.25e^{-2t} + 0.25 + 0.5t - e^{-t} + 2t^2 + t^3$

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$[r,p,k] = \text{residue}([4,3],[1,6,34,0])$ 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 $s^2 + 6s + 1 = 0.01s^2 + 0.3s + 1 = 0$ 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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