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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) $Z \times 3 \text{ dx } 25 \times 2 \text{ Z } 0 \text{ dt} = t \text{ Z } \times 3 \text{ dx } 25 \times 2 \text{ p } 5 \text{ 25}^{\circ}$ $\arctanh p \ 5x \ 5!$ $\arctanh 3 \ p \ 5!$ $\# = t$ Let $C = \arctanh 3 \ p \ 5!$ Solve for x to obtain $x = p \ 5 \tanh(5 \ p \ 5t + C)$ b) $Z \times 10 \text{ dx } 36 + 4x^2 \text{ Z } t \ 0 \text{ dt} = t$

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The solution is $x(t) = [0.25e^{kt} + 0.25 + 0.5\cos t] e^{-t}$ 1 $t^2 + 2 \ t^3 \ 2$ [r,p,k] = 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 $x(t) = ([0.0441 - 0.3735i]e^{(3+5j)t} + [0.0441 + 0.3735i]e^{(3-5j)t} + 0.0882)e^{-t}$ The solution is $x(t) = 2e^{kt} ([0.0441 \cos 5t + 0.3735 \sin 5t) + 0.0882$ (continued on the next page)

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The characteristic equation derived earlier becomes $s^2 + 2s + 3 = 0$ whose roots are $s = -1 \pm j\sqrt{2}$ and $s = -1 \pm j\sqrt{2}$. The dominant time constant is $1/2 = 0.5$ s, and thus we would expect the steady-state response to be reached in about $4(0.5) = 2$ s. The scope plot confirms this. 16.

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