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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) $Z \times 3 \frac{dx}{dt} + 25.5x = 25.5$ $Z \times 3 \frac{dx}{dt} + 25.5x = 25.5$ " $\arctanh \frac{p}{5} = \frac{1}{5} \arctanh \frac{3}{5}$ Let $C = \arctanh \frac{3}{5}$ Solve for x to obtain $x = \frac{5}{3} \tanh(5p - 5t + C)$ b) $Z \times 10 \frac{dx}{dt} + 4x = 25$ $Z \times 10 \frac{dx}{dt} + 4x = 25$

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