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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) $\int x^3 dx = \frac{1}{4}x^4 + C$ $\int 25 - 5x^2 dx = 25x - \frac{5}{3}x^3 + C$ $\int \frac{1}{t} dt = \ln|t| + C$
 $\int \frac{1}{x^3} dx = -\frac{1}{2}x^{-2} + C = -\frac{1}{2x^2} + C$ $\int \frac{1}{25 - x^2} dx = \frac{1}{10} \operatorname{arctanh} \frac{x}{5} + C$
 $\int \frac{1}{5x^2 + 5} dx = \frac{1}{5} \operatorname{arctanh} \frac{x}{5} + C$ $\int \frac{1}{x^2 + 5} dx = \frac{1}{\sqrt{5}} \operatorname{arctanh} \frac{x}{\sqrt{5}} + C$
= t Let $C = \operatorname{arctanh} \frac{3}{5}$ Solve for x to obtain $x = 5 \tanh(5 \operatorname{arctanh} \frac{3}{5} + 5t + C)$ b) $\int \frac{1}{x^2 + 10} dx = \frac{1}{\sqrt{10}} \operatorname{arctanh} \frac{x}{\sqrt{10}} + C$ $\int \frac{1}{36 + 4x^2} dx = \frac{1}{12} \operatorname{arctanh} \frac{x}{3} + C$ $\int \frac{1}{t} dt = \ln|t| + C$

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The solution is $x(t) = -0.25e^{-2t} + 0.25 + 0.5t - e^{-t} + t^2 + 2t + 3$
 $[r,p,k] = \text{residue}([4,3],[1,6,34,0])$
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 $x(t) = (-0.0441$

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 $-0.3735j)e^{(-3+5j)t} +$
 $(-0.0441 + 0.3735j)e^{(-3-5j)t}$
 $+ 0.0882$ 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 $s^2 + 3s + 1 = 0$
 $s^2 + 0.3s + 1 = 0$ 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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driven by a hydraulic piston.

Assuming small angles and a

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concentrated mass m a distance L from the pivot, derive the equation of motion with the pressures p_1 and p_2 as inputs. ” is broken down into a number of easy to ...

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