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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)  $Z \times 3 \text{ dx } 25 \text{ 5x}^2 Z \int 0 \text{ dt} = 1 \times Z \times 3 \text{ dx } 25 \text{ 5x}^2 \text{ p } 5 \text{ 25}^{\circ} \arctan h \text{ p } 5 \text{ 5!} \arctan h \text{ 3 p } 5 \text{ 5!} = 1$  Let  $C = \arctan h \text{ 3 p } 5 \text{ 5!}$  Solve for  $x$  to obtain  $x = \text{p } 5 \tan h(5 \text{ p } 5 \text{ t} + C)$  b)  $Z \times 10 \text{ dx } 36 + 4x^2 Z \int 0 \text{ dt} = 1$

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The solution is  $x(t) = [0.25e^{t/2} + 0.25 + 0.5e^{-t}] \cos t + 2 \int 1 \cos t \text{ [r,p,k]} = \text{residue}([4,3],[1,6,34,0])$  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  $k = [1]$ . The solution is  $x(t) = [0.0441 \cos(3+5)t + (0.0441 + 0.3735i)e^{-(3+5i)t} + 0.0882]$  The solution is  $x(t) = 2e^{t/3} [(0.0441 \cos 5t + 0.3735 \sin 5t) + 0.0882]$  (continued on the next page)

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The characteristic equation derived earlier becomes  $2s^2 + 2s + 1 = 0$  whose roots are  $s = -0.1 \pm j0.316$  and  $s = -0.1 \pm j0.316$  whose roots are  $s = -0.1 \pm j0.316$  and  $s = -0.1 \pm j0.316$ . 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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