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

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The solution is  $x(t) = 70.25e^{72t} + 0.25 + 0.5t^2 e^{-t}$  1.12 + 2 1 t3 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  $x(t) = (70.0441 + 0.3735i)e^{(73+5j)t} + (70.0441 + 0.3735i)e^{(73-5j)t} + 0.0882$  The solution is  $x(t) = 2e^{73t} (70.0441 \cos 5t + 0.3735 \sin 5t) + 0.0882$  (continued on the next page)

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The characteristic equation derived earlier becomes  $272 \cdot 2 + 3 \cdot \gamma + 1 = 0$   $0.1 \cdot 2 + 0.3 \cdot \gamma + 1 = 0$  whose roots are  $\gamma = -26.18$  and  $\gamma = 73.82$ . 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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