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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 functiony = b(10)mx where y is the temperature in degrees C andx is the time in seconds.

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2.3 a) Z x 3 dx 25 5x2 Z t 0 dt = t Z x 3 dx 25 5x2 p 5 25 " arctanh p 5x 5! arctanh 3 p 5 5!# = t Let C = arctanh 3 p 5 5! Solve forx to obtain x = p 5tanh(5 p 5t + C) b) Z x 10 dx 36 + 4x2 Z t 0 dt = t

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The solution is x(t) = 0.25e2t + 0.25 + 0.5t e) 1 t2 + 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) = (0.0441 0.3735j)e(3+5j)t + (0.0441 + 0.3735j)e(35j)t + 0.0882 The solution is x(t) = 2e3t (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 22 2+3 +1=0.01 2+0.3 +1=0 whose roots are =26.18and =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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