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The solution is x(t) = ?0.25e?2t + 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(?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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= ln[C(t)=C(0)]=busingC(t)=C(0) = 0:9 and b= 1:2603 104. The answer is 836 years.

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The characteristic equation derived earlier becomes 2?2 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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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 for the forced response is x. forced(t) = ?0.0034te?3tsin 5t+0.0066te?3tcos 5t ? 0.0026e?3tsin 5t+2.308×10?4e?3tcos 5t + 0.00796 sin 0.866t?2.308×10?4cos 0.866t The initial condition ?x(0) = 0 is not exactly

satis?ed by this expression because of the limited number of digits used to display it.

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These roots correspond to the polynomial equation (s + 1 ? j) (s + 1 + j) = (s + 1)2 + 1 = s2 + 2s + 2 = 0 or 10s2 + 20s + 20 = 0 Compare this with the system's characteristic equation obtained from the denominator of the

transfer function: 10s2 + (3 + KD)s + KP = 0 Thus KP = 20 and 3 + KD = 20, or KD = 17.

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1.13Speed = 40 (5280)/3600 = 58.6667 ft/sec. Frequency = 58. 6667

/30 = 1.9556 times per second. 1.14x= 0.005 sin 6t, ?x= 0.005 (6) cos 6t= 0.03 cos 6t. Velocity amplitude is 0.03 m/s. x ?=?6 (0.03) sin 6t=? 0 .18 sin 6t. Acceleration amplitude is 0.18 m/s 2.

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