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## Problem 2.41

continued: Because the initial values can be arbitrary, the general form of the solution is

$$y(t) = e^{-\zeta t} + A_1 \sin t + A_2 \cos t$$

(1) This form can be used to obtain a solution for cases

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where  $y(t)$  or  $\dot{y}(t)$  are specified at points other than  $t = 0$ .

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1.26 Only the semilog plot of the data gives something close to a straight line, so the

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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)  $Z \times 3 \, dx \, 25 \, 5x^2$   
 $Z \, t \, 0 \, dt = t \, Z \, x \, 3 \, dx \, 25$   
 $5x^2 \, p \, 5 \, 25 \, \text{arctanh} \, p$

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$5x - 5! \operatorname{arctanh} 3 p 5$

$5! \# = t$  Let  $C =$

$\operatorname{arctanh} 3 p 5 5!$  Solve

for  $x$  to obtain  $x = p$

$5 \tanh(5 p 5t + C)$  b)  $Z$

$x 10 dx 36 + 4x^2 Z t 0$

$dt = t$

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The solution is  $x(t) =$

$0.25e^{-2t} + 0.25 +$

$0.5t e^{-t} + 0.5t^2 + 0.5t^3$

$[r,p,k] = \text{residue}([4,3],[$

$1,6,34,0])$  The result

is  $r = [-0.0441 -$

$0.3735i, -0.0441 +$

$0.3735i, 0.0882], p =$

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$[-3.0000 + 5.0000i,$   
 $-3.0000 - 5.0000i, 0],$   
and  $k = [ ]$ . The  
solution is  $x(t) =$

$$\begin{aligned} & (0.0441 + \\ & 0.3735j)e^{(-3+5j)t} + \\ & (0.0441 + \\ & 0.3735j)e^{(-3-5j)t} + \\ & 0.0882 \end{aligned}$$

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  $2s^2 + 3s + 1 = 0.01(2s^2 + 0.3s + 1) = 0$  whose roots are  $s = -0.2618$  and  $s = -3.82$ .

The dominant time constant is  $1/3.82 = 0.262$ , and thus we would expect the steady-state

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response to be reached in about  $4(0.262)=1.04$  s. The scope plot confirms this. 16.

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mathematical modeling and analysis of devices and processes for the purpose of understanding their time-dependent behavior. While other subjects, such as Newtonian dynamics and electrical circuit theory, also deal with

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
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in Chapter One

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answer to Figure P7.29 shows a pendulum driven by a hydraulic piston. Assuming small angles and a concentrated mass  $m$  a distance  $L_1$  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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