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2.3 a) $Z \times 3 \frac{dx}{dt} + 25x = t$ $Z \times 3 \frac{dx}{dt} + 25x = t$ $p = 25$ $\arctanh \frac{p}{5} = \arctanh \frac{25}{5} = \arctanh 5$
 $\frac{1}{3} \ln \left| \frac{5x + 5}{5x - 5} \right| = t$ Let $C = \arctanh \frac{3}{5}$ Solve for x to obtain $x = \frac{1}{5} \tanh(5t + C)$
b) $Z \times 10 \frac{dx}{dt} + 36x = t$

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The solution is $x(t) = -0.25e^{-2t} + 0.25 + 0.5t - e^{-3t} + 2e^{-5t} + 0.0882$
 $\text{residue}([4,3],[1,6,34,0])$ 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 $k = []$. 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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shown in Figure P5.3. Step-by-Step Solution: Step 1 of 3.

Obtain the transfer function $X(s)/F(s)$ from the block ...

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Main revisions made in this edition are to shift the state space approach to modeling dynamic systems to Chapter 5, right next to the transfer function

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approach to modeling dynamic systems, and to add numerous examples for modeling and response analyses of dynamic systems.

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