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The solution is $x(t) = -0.25e^{-2t} + 0.25 + 0.5t - e^{-3t} + 2e^{-3t} \cos 5t + 2e^{-3t} \sin 5t$ [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 $k = [1, 2, 2]$. 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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