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where the first term to the right of the equal sign is the general solution and the second is the particular solution. For our case,  $v(0) = 0$ , so the final solution is  $v(t) = e^{-t/2} (C_1 \cos(2t) + C_2 \sin(2t)) + 19.62 \cos(2t) + 6.2087 \sin(2t)$ . (b) The numerical solution can be implemented as  $v(0) = 0$ ,  $v(2) = 19.62 \cos(4) + 6.2087 \sin(4) = 9.81$ ,  $v(4) = 19.62 \cos(8) + 6.2087 \sin(8) = 9.81$ .

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