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1CHAPTER 11.1 We will illustrate two different methods for solving this problem: (1) separation of variables, and (2) Laplace transform.

g vdv cdt
mSeparation of variables: Separation of variables gives $g c v dv dt = 1 m$ The integrals can be evaluated as $c \ln g v$

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Write the MATLAB code that declares the values and evaluates the mathematical expression. %Declare the values of x and z. x=5.3; z=7.8; %Expression of y. $y = (x \cdot z / (x/z)^2) + (14 \cdot x^2) - (0.8 \cdot z^2)$ Press the run button to execute the code. The

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output of the code is, $y =$.

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25.6 (a) The analytical solution can be derived by separation of variables. dy

$$y = 1 + 2x \, dx. \quad 2y = x + x^2 + C$$

Substituting the initial conditions yields $C = 2$. Substituting this value and solving for y gives the final result $y = (x^2 + x + 2)^{1/2}$.

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PT1.1 MOTIVATION Numerical

methods are techniques by which mathematical problems are formulated so that they can be solved with arithmetic operations.

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