

# Solution Manual for Elementary Differential Equations with Boundary Value Problems, 2/E 2nd Edition: 0321288351

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## Chapter 1 Introduction to Differential Equations

### Section 1.2

1. This D.E. is of order two because the highest derivative in the equation is  $y''$ .
2. Order is 1.
3. This D.E. is of order one because the highest derivative in the equation is  $y'$ . (Note:  $(y'')^3 \neq y'''$ )
4. Order is 3.
5. Differentiating gives us  $y' = ke^{2t}$ . Substitution yields  $ke^{2t} + 2e^{2t} = 0$ . Therefore,  $k = -2$ .
6.  $y'' - y = 0 \Rightarrow k^2 e^{kt} - e^{kt} = 0 \Rightarrow k = \pm 1$ .
7. Differentiating gives us  $y' = -2k \sin 2te^{t \cos 2t}$ . Substitution yields  $-2k \sin 2te^{t \cos 2t} + \sin 2te^{t \cos 2t} = 0$ . Therefore,  $\sin 2te^{t \cos 2t}(-2k + 1) = 0$ , and solving for  $k$  gives us  $k = \frac{1}{2}$ .
8.  $y = ke^{-t}$ ,  $y' + y = 0$ ,  $-ke^{-t} + ke^{-t} = 0$ .  $k$  can be any real number.
- 9 (a).  $y = Ce^{2t}$ . Differentiating gives us  $y' = Ce^{2t}$ ,  $-2t = 2ty$ . Therefore,  $y' - 2ty = 0$  for any value of  $C$ .
- 9 (b). Substituting into the differential equation yields  $y(1) = Ce^{1^2} = Ce$ . Using the initial condition,  $y(1) = 2 = Ce$ . Solving for  $C$ , we find  $C = 2e^{-1}$ .
10.  $y''' = 2$ .  $y'' = 2t + c$ .  $y' = t^2 + ct + e$ .  $y = \frac{t^3}{3} + c \frac{t^2}{2} + et + e$ .

# Differential Equations With Boundary Value Problems 2 2nd Edition

**RJ Shavelson**



**Differential Equations With Boundary Value Problems 2 2nd Edition:**

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