

CHAPTER 1

FIRST-ORDER DIFFERENTIAL EQUATIONS

SECTION 1.1

DIFFERENTIAL EQUATIONS AND MATHEMATICAL MODELING

The main purpose of Section 1.1 is simply to introduce the basic notation and terminology of differential equations, and to show the student what is meant by a solution of a differential equation. Also, the use of differential equations in the mathematical modeling of real-world phenomena is outlined.

Problems 1-12 are routine verifications by direct substitution of the suggested solutions into the given differential equations. We include here just some typical examples of such verifications.

3. If $y_1 = \cos 2x$ and $y_2 = \sin 2x$, then $y_1' = -2\sin 2x$ and $y_2' = 2\cos 2x$ so

$$y_1'' = -4\cos 2x = -4y_1 \quad \text{and} \quad y_2'' = -4\sin 2x = -4y_2.$$

Thus $y_1'' + 4y_1 = 0$ and $y_2'' + 4y_2 = 0$.

4. If $y_1 = e^{3x}$ and $y_2 = e^{-3x}$, then $y_1' = 3e^{3x}$ and $y_2' = -3e^{-3x}$ so

$$y_1'' = 9e^{3x} = 9y_1 \quad \text{and} \quad y_2'' = 9e^{-3x} = 9y_2.$$

5. If $y = e^x - e^{-x}$, then $y' = e^x + e^{-x}$ so $y' - y = (e^x + e^{-x}) - (e^x - e^{-x}) = 2e^{-x}$. Thus $y' = y + 2e^{-x}$.

6. If $y_1 = e^{-2x}$ and $y_2 = xe^{-2x}$, then $y_1' = -2e^{-2x}$, $y_1'' = 4e^{-2x}$, $y_2' = e^{-2x} - 2xe^{-2x}$, and $y_2'' = -4e^{-2x} + 4xe^{-2x}$. Hence

$$y_1'' + 4y_1' + 4y_1 = (4e^{-2x}) + 4(-2e^{-2x}) + 4(e^{-2x}) = 0$$

and

$$y_2'' + 4y_2' + 4y_2 = (-4e^{-2x} + 4xe^{-2x}) + 4(e^{-2x} - 2xe^{-2x}) + 4(xe^{-2x}) = 0.$$

8. If $y_1 = \cos x - \cos 2x$ and $y_2 = \sin x - \cos 2x$, then $y_1' = -\sin x + 2\sin 2x$, $y_1'' = -\cos x + 4\cos 2x$, and $y_2' = \cos x + 2\sin 2x$, $y_2'' = -\sin x + 4\cos 2x$. Hence

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Solutions Manual - Elementary Differential Equations with Boundary Value Problems Charles Henry Edwards, David E. Penney, 1999-11

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Differential Equations and Boundary Value Problems Charles Henry Edwards, David E. Penney, 2008 This best selling text by these well known authors blends the traditional algebra problem solving skills with the conceptual development and geometric visualization of a modern differential equations course that is essential to science and engineering students Publisher

Elementary Differential Equations Charles Henry Edwards, 2008

Student Solutions Manual for Elementary Differential Equations Charles Henry Edwards, David E. Penney, 2007-11-19

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Differential Equations and Linear Algebra, Student Solutions Manual Henry Edwards, David Penney, 2004-05

Multivariable Calculus Thomas H. Barr, 2000

Differential Equations and Their Applications Martin Braun, 1976

Differential Equations: Computing and Modeling [With Paperback Book] C. Henry Edwards, David E. Penney, 2007-08

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