

# Chapter 1

## Introduction to Differential Equations

### 1.1 Definitions and Terminology

1. Second order; linear
2. Third order; nonlinear because of  $(dy/dx)^4$
3. Fourth order; linear
4. Second order; nonlinear because of  $\cos(r+u)$
5. Second order; nonlinear because of  $(dy/dx)^2$  or  $\sqrt{1+(dy/dx)^2}$
6. Second order; nonlinear because of  $R^2$
7. Third order; linear
8. Second order; nonlinear because of  $x^2$
9. Writing the differential equation in the form  $x(dy/dx) + y^2 = 1$ , we see that it is nonlinear in  $y$  because of  $y^2$ . However, writing it in the form  $(y^2 - 1)(dx/dy) + x = 0$ , we see that it is linear in  $x$ .
10. Writing the differential equation in the form  $u(dx/du) + (1+u)v = ue^{2u}$  we see that it is linear in  $v$ . However, writing it in the form  $(v + uv - ue^{2u})(du/dv) + u = 0$ , we see that it is nonlinear in  $u$ .
11. From  $y = e^{-x/2}$  we obtain  $y' = -\frac{1}{2}e^{-x/2}$ . Then  $2y' + y = -e^{-x/2} + e^{-x/2} = 0$ .
12. From  $y = \frac{6}{5} - \frac{6}{5}e^{-20x}$  we obtain  $dy/dt = 24e^{-20x}$ , so that
 
$$\frac{dy}{dt} + 20y = 24e^{-20x} + 20\left(\frac{6}{5} - \frac{6}{5}e^{-20x}\right) = 24.$$
13. From  $y = e^{3x} \cos 2x$  we obtain  $y' = 3e^{3x} \cos 2x - 2e^{3x} \sin 2x$  and  $y'' = 5e^{3x} \cos 2x - 12e^{3x} \sin 2x$ , so that  $y'' - 6y' + 13y = 0$ .

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**Dennis G. Zill, Warren S. Wright**



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