

## 1

Introduction to  
Differential Equations

## EXERCISES 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  $\dot{x}^2$
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  $u(dv/du) + (1 + u)v = ue^u$  we see that it is linear in  $v$ . However, writing it in the form  $(v + uv - ue^u)(du/dv) + u = 0$ , 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  $y'' - 6y' + 13y = 0$ .
14. From  $y = -\cos x \ln(\sec x + \tan x)$  we obtain  $y' = -1 + \sin x \ln(\sec x + \tan x)$  and  $y'' = \tan x + \cos x \ln(\sec x + \tan x)$ . Then  $y'' + y = \tan x$ .
15. The domain of the function, found by solving  $x + 2 \geq 0$ , is  $[-2, \infty)$ . From  $y' = 1 + 2(x + 2)^{-1/2}$  we have
 
$$\begin{aligned} (y - x)y' &= (y - x)[1 + (2(x + 2))^{-1/2}] \\ &= y - x + 2(y - x)(x + 2)^{-1/2} \\ &= y - x + 2[x + 4(x + 2)^{1/2} - x](x + 2)^{-1/2} \\ &= y - x + 8(x + 2)^{1/2}(x + 2)^{-1/2} = y - x + 8. \end{aligned}$$

# Solutions Manual Ordinary Differential Equations Swift

**Rosina Ehmann**



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