

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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