

Solution and Answer Guide

ZILL, DIFFERENTIAL EQUATIONS WITH BOUNDARY-VALUE PROBLEMS 2024,
9780357760451; CHAPTER #1: INTRODUCTION TO DIFFERENTIAL EQUATIONS

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END OF SECTION SOLUTIONS

EXERCISES 1.1

1. Second order; linear
2. Third order; nonlinear because of $(dy/dx)^4$
3. Fourth order; linear
4. Second order; nonlinear because of $\cos(x + u)$
5. Second order; nonlinear because of $(dy/dx)^2$ or $\sqrt{1 + (dy/dx)^2}$
6. Second order; nonlinear because of \mathbb{R}^2
7. Third order; linear
8. Second order; nonlinear because of x^2
9. First order; nonlinear because of $\sin(dy/dx)$
10. First order; linear
11. 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 .
12. 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 $(v + uv - ue^u)(du/dc) + u = 0$, we see that it is nonlinear in u .
13. From $y = e^{-x/2}$ we obtain $y' = -\frac{1}{2}e^{-x/2}$. Then $2y' + y = -e^{-x/2} + e^{-x/2} = 0$.

Differential Equations Dennis Zill Solution Manual

Dennis G. Zill



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