

34. Substitution of $y = \sum c_n x^n$ in the Airy equation leads upon shift of index and collection of terms to

$$2c_2 + \sum_{n=1}^{\infty} [(n+1)(n+2)c_{n+2} - c_{n-1}] x^n = 0.$$

The identity principle then gives $c_2 = 0$ and the recurrence formula

$$c_{n+3} = \frac{c_n}{(n+2)(n+3)}.$$

Because of the "3-step" in indices, it follows that $c_2 = c_5 = c_8 = c_{11} = \dots = 0$. Starting with $c_0 = 1$, we calculate

$$c_3 = \frac{1}{2 \cdot 3} = \frac{1}{3!}, \quad c_6 = \frac{1}{3! \cdot 5 \cdot 6} = \frac{1 \cdot 4}{6!}, \quad c_9 = \frac{1 \cdot 4 \cdot 7}{6! \cdot 8 \cdot 9} = \frac{1 \cdot 4 \cdot 7}{9!}, \dots$$

Starting with $c_1 = 1$, we calculate

$$c_4 = \frac{1}{3 \cdot 4} = \frac{2}{4!}, \quad c_7 = \frac{2}{4! \cdot 6 \cdot 7} = \frac{2 \cdot 5}{7!}, \quad c_{10} = \frac{2 \cdot 5}{7! \cdot 9 \cdot 10} = \frac{2 \cdot 5 \cdot 8}{10!}, \dots$$

Evidently we are building up the coefficients

$$c_{3k} = \frac{1 \cdot 4 \cdot \dots \cdot (3k-2)}{(3k)!} \quad \text{and} \quad c_{3k+1} = \frac{2 \cdot 5 \cdot \dots \cdot (3k-1)}{(3k+1)!}$$

that appear in the desired series for $y_1(x)$ and $y_2(x)$. Finally, the Mathematica commands

```
A[1] = 1/6 ; A[k_] := A[k-1]/(3 k (3 k-1))
B[1] = 1/12 ; B[k_] := B[k-1]/(3 k (3 k+1))
n = 40 ;
y1 = 1 + Sum[A[k] x^(3 k), {k, 1, n}]
y2 = x + Sum[B[k] x^(3 k+1), {k, 1, n}]
yA = y1/(2^(1/3) Gamma[2/3]) - y2/(3^(1/3) Gamma[1/3]) ;
yB = y1/(3^(1/6) Gamma[1/3]) + y2/(3^(1/6) Gamma[1/3]) ;
Plot[{yA, yB}, {x, -13.5, 3}, PlotRange -> {-0.75, 1.5}] ;
```

Elementary Differential Equations 6th Edition Solution Manual

JG Myers



Elementary Differential Equations 6th Edition Solution Manual:

Elementary Differential Equations and Boundary Value Problems Boyce, Richard C. DiPrima, 1996-08-20 This book covers all the essential topics on differential equations including series solutions Laplace transforms systems of equations numerical methods and phase plane methods Clear explanations are detailed with many current examples Student Solutions Manual to Accompany Elementary Differential Equations, Sixth Edition, and Elementary Differential Equations and Boundary Value Problems, Sixth Edition [by] William E. Boyce, Richard C. DiPrima Charles W. Haines, 1997 This revised edition includes problems and examples that incorporate computer technology Many of the problems also call for graphing solutions or statements about their behaviour In doing this the text clearly demonstrates why solutions are no more important than the conclusions that can be drawn from them **Solutions Manual, Elementary Differential Equations with Boundary Value Problems, 2nd Edition** Charles Henry Edwards, David E. Penney, 1989 This is a solutions manual to accompany the textbooks Elementary Differential Equations with Applications 1989 and Elementary Differential Equations with Boundary Value Problems 1989 P vii preface **Student Solutions Manual to Accompany Elementary Differential Equations, Fifth Edition, Elementary Differential Equations and Boundary Value Problems, Fifth Edition, William E. Boyce, Richard C. DiPrima** Charles W. Haines, 1992 Student Solutions Manual for Elementary Differential Equations Charles Henry Edwards, David E. Penney, 2007-11-19 *Differential Equations: Methods and Applications* Belkacem Said-Houari, 2016-01-11 This book presents a variety of techniques for solving ordinary differential equations analytically and features a wealth of examples Focusing on the modeling of real world phenomena it begins with a basic introduction to differential equations followed by linear and nonlinear first order equations and a detailed treatment of the second order linear equations After presenting solution methods for the Laplace transform and power series it lastly presents systems of equations and offers an introduction to the stability theory To help readers practice the theory covered two types of exercises are provided those that illustrate the general theory and others designed to expand on the text material Detailed solutions to all the exercises are included The book is excellently suited for use as a textbook for an undergraduate class of all disciplines in ordinary differential equations **Student's Solutions Manual to Accompany Elementary Differential Equations** Kohler, Lee W. Johnson, 2003 Contains detailed solutions for all odd numbered exercises *Solution Manual for Partial Differential Equations for Scientists and Engineers* Stanley J. Farlow, 2020-07-15 Originally published by John Wiley and Sons in 1983 Partial Differential Equations for Scientists and Engineers was reprinted by Dover in 1993 Written for advanced undergraduates in mathematics the widely used and extremely successful text covers diffusion type problems hyperbolic type problems elliptic type problems and numerical and approximate methods Dover's 1993 edition which contains answers to selected problems is now supplemented by this complete solutions manual *Elementary Differential Equations + Student Solutions Manual* C. Henry Edwards, David E. Penney, 2007-12-06 This package contains the following components

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