

NOTES: Chapter 10: Linear ODEs (10.1-10.4)

Exercise 10.1.1 (Homework): Show that $y = e^{2x}$ is a solution to the homogeneous equation

the homogeneous equation with constant coefficients. Verify that the particular solution $y_p = e^{2x}$ is a solution to the inhomogeneous equation. Then, using the method of undetermined coefficients, find a particular solution y_p to the inhomogeneous equation $y'' + 4y' + 4y = e^{2x}$. (Note: The homogeneous equation has a double root $r = -2$.)

1. The homogeneous equation has a double root $r = -2$, so the homogeneous solution is $y_h = C_1 e^{-2x} + C_2 x e^{-2x}$. The particular solution $y_p = e^{2x}$ is a solution to the inhomogeneous equation. The general solution is $y = C_1 e^{-2x} + C_2 x e^{-2x} + e^{2x}$.

(Note: The homogeneous equation has a double root $r = -2$.)

Exercise 10.1.2 (Homework): The method of undetermined coefficients can be used to find a particular solution to the inhomogeneous equation $y'' + 4y' + 4y = e^{2x}$. The homogeneous equation has a double root $r = -2$, so the homogeneous solution is $y_h = C_1 e^{-2x} + C_2 x e^{-2x}$. The particular solution $y_p = e^{2x}$ is a solution to the inhomogeneous equation. The general solution is $y = C_1 e^{-2x} + C_2 x e^{-2x} + e^{2x}$.

Use the method of undetermined coefficients to find a particular solution to the inhomogeneous equation

$$y'' + 4y' + 4y = e^{2x}.$$

Exercise 10.1.3 (Homework): The method of undetermined coefficients can be used to find a particular solution to the inhomogeneous equation

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Akash Tiwari



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The Best Reading Lynds Eugene Jones, 1882 **The Inland Educator** ,1898 Mississippi River Tragedies Christine A Klein, Sandra B Zellmer, 2017-08-01 A stunning and important book It tells a sweeping tale of folly greed ignorance injustice and unintended consequences We all should heed its lessons David Baron award winning author of *The Beast in the Garden* American engineers have done astounding things to bend the Mississippi River to their will forcing one of its tributaries to flow uphill transforming over a thousand miles of roiling currents into a placid staircase of water and wresting the lower half of the river apart from its floodplain American law has aided and abetted these feats But despite our best efforts so called natural disasters continue to strike the Mississippi basin as raging floodwaters decimate waterfront communities and abandoned towns literally crumble into the Gulf of Mexico In some places only the tombstones remain leaning at odd angles as the underlying soil erodes away *Mississippi River Tragedies* reveals that it is seductively deceptive but horribly misleading to call such catastrophes natural Authors Christine A Klein and Sandra B Zellmer present a sympathetic account of the human dreams pride and foibles that got us to this point weaving together engaging historical narratives and accessible law stories drawn from actual courtroom dramas The authors deftly uncover the larger story of how the law reflects and even amplifies our ambivalent attitude toward nature simultaneously revering wild rivers and places for what they are while working feverishly to change them into something else Despite their sobering revelations the authors final message is one of hope Although the acknowledgement of human responsibility for unnatural disasters can lead to blame guilt and liability it can also prod us to confront the consequences of our actions leading to a liberating sense of possibility and to the knowledge necessary to avoid future disasters The best readings, hints on the selection of books [&c.] ed. by F.B. Perkins. 4th revised ed. Ed. by L.E. Jones Best reading, 1882 **Choice** ,2007-03 The Best Reading: 1876-81 ,1882 CHO (Community Health Officer) - Part 7 | 20 Paper Sets | 2000 Questions & Answers Akash Tiwari, 2020-11-30 More than 1999 MCQs focused on Competitive Exams Team of Experienced and specialist professionals to design and offer best quality Competitive material for Healthcare professional to excel in Competitive exams and also increase the Patient Safety standards in the country *Index of Patents Issued from the United States Patent Office* United States. Patent Office, 1952 *The Historical Magazine and Notes and Queries Concerning the Antiquities, History and Biography of America* ,1868 **Traffic Bulletin** ,1925

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