

NOTES: Chapter 10: Linear ODEs (10/10/2024)

Exercise 10.1 (Homework): Show that $y = e^{2x}$ is a solution to the homogeneous equation

the homogeneous equation $y'' - 4y' + 4y = 0$. Verify that $y = e^{2x}$ is a solution to the inhomogeneous equation $y'' - 4y' + 4y = 2e^{2x}$. Show that $y = xe^{2x}$ is a solution to the inhomogeneous equation $y'' - 4y' + 4y = 2e^{2x}$. Show that $y = xe^{2x}$ is a solution to the inhomogeneous equation $y'' - 4y' + 4y = 2e^{2x}$.

1. Show that $y = e^{2x}$ is a solution to the homogeneous equation $y'' - 4y' + 4y = 0$. Verify that $y = e^{2x}$ is a solution to the inhomogeneous equation $y'' - 4y' + 4y = 2e^{2x}$. Show that $y = xe^{2x}$ is a solution to the inhomogeneous equation $y'' - 4y' + 4y = 2e^{2x}$.

$y'' - 4y' + 4y = 0$

Exercise 10.2 (Homework): The function $y = e^{2x}$ is a solution to the homogeneous equation $y'' - 4y' + 4y = 0$. Verify that $y = e^{2x}$ is a solution to the inhomogeneous equation $y'' - 4y' + 4y = 2e^{2x}$. Show that $y = xe^{2x}$ is a solution to the inhomogeneous equation $y'' - 4y' + 4y = 2e^{2x}$.

Show that the general solution of the inhomogeneous equation is $y = e^{2x}(C_1 + C_2x) + xe^{2x}$.

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

Exercise 10.3 (Homework): The function $y = e^{2x}$ is a solution to the homogeneous equation $y'' - 4y' + 4y = 0$. Verify that $y = e^{2x}$ is a solution to the inhomogeneous equation $y'' - 4y' + 4y = 2e^{2x}$.

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