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so that the general solution is given by $x(t) = c_1 e^{-2t} + c_2 e^{5t}$. When $c_2 = 0$ the solutions are restricted to the line $y = x$; furthermore, any solution on this line grows large exponentially fast. When $c_1 = 0$ the solutions are restricted to the line $y = 4/5x$; furthermore, any solution on this line also grows large exponentially fast.

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2.2.2 Case (II): The roots ($r_1 = r_2$) 104

1. Introduction 1.1 Introduction This set of lecture notes was built from a one semester course on the Introduction to Ordinary and Differential Equations at Penn State University from 2010-2014.

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highest derivative $y^{(n)}$ in terms of the remaining $n - 1$ variables. The differential equation, (5) where f is a real-valued continuous function, is referred to as the normal form of (4). Thus when it suits our purposes, we shall use the normal forms to represent general first- and second-order ordinary differential equations.

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