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differential equation then so is $y(t) = c_1 y_1(t) + c_2 y_2(t)$

(3) $y(t) = c_1 y_1(t) + c_2 y_2(t)$ Note that we didn't include the

restriction of constant coefficient or second order in this.

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The weak maximum principle, in this setting, says that for any open precompact subset M of the domain of u , the maximum of u on the closure of M is achieved on the boundary of M . The strong maximum principle says that, unless u is a constant function, the maximum cannot also be achieved anywhere on M itself. Such statements give a striking qualitative picture of solutions of the given differential equation. Such a qualitative picture can be extended to many kinds of differential equations. In ma

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$y_1(t)$ and $y_2(t)$ are both solutions to this differential equation, then for C and D as constants, $y = Cy_1(t) + Dy_2(t)$ is also a solution.

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The superposition principle, also known as superposition property, states that, for all linear systems, the net response caused by two or more stimuli is the sum of the responses that would have been caused by each stimulus individually. So

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that if input A produces response X and input B produces response Y then input produces response. A function F that satisfies the superposition principle is called a linear function. Superposition can be defined by two simpler properties; ad

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$y + p(t)y = q(t)$. We will consider the left-hand side to be the system and the right-hand side to be the input. For any given input $q(t)$ that has output $y(t)$ we will write $q \rightarrow y$ (read input q leads to output y). If q_1

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$p_1(t)$ and $q_2(t)$ are signals, and c_1 and c_2 are constants then we call $c_1 q_2$.

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