

Section 31.7 and 31.8: Higher Order Homogeneous Equations

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3:14 PM

linear differential equations of 2nd order:

$$a_0 y'' + a_1 y' + a_2 y = b$$

where $a_0, a_1, a_2,$ and b are either
constants or functions of x

note that, in general, linear differential equation of
 n^{th} order:

$$a_0 \frac{d^2 y}{dx^2} + a_1 \frac{d^{n-1} y}{dx^{n-1}} + \dots + a_n y = b$$