

4.7: Differential Operators

- We will now define some notation to make working with differential equations easier!

- **Definition:** $D := \frac{d}{dx}$; $D^2 := \frac{d^2}{dx^2}$; ..., $D^k := \frac{d^k}{dx^k}$ ($k \geq 1$)

(Thus, $\frac{d^k y}{dx^k}$ can be written $D^k y$.)

We call the expression

$$A = a_0 D^n + a_1 D^{n-1} + \dots + a_{n-1} D + a_n \quad (1)$$

a differential operator of order n .

(Here a_i are either constants or functions of x .)

Iterations Of Differential Operators

A. V. Babin



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