

## 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

**Didier Musso**



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