

# Power series solutions to differential equations

- For any ordinary differential equation for  $y(x)$ , we can assume a power series expansion

$$y(x) = a_0 + a_1x + a_2x^2 + \dots = \sum_{n=0}^{\infty} a_n x^n$$

- Then if we operate by  $\frac{d}{dx}$  on this power-series representation of  $y(x)$ ,

$$\frac{dy}{dx} = a_1 + 2a_2x + \dots = \sum_{n=1}^{\infty} n a_n x^{n-1}$$

- If we want  $\frac{d^2y}{dx^2}$ , then

$$\frac{d^2y}{dx^2} = 2a_2 + 6a_3x + \dots = \sum_{n=2}^{\infty} (n)(n-1)a_n x^{n-2}$$

# Power Series Solutions Differential Equations

**Dennis G. Zill, Warren S. Wright**



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