# 2<sup>nd</sup> Order Homogeneous DEs

$$\frac{d^2u(x)}{dx^2} + a\frac{du(x)}{dx} + bu(x) = 0$$

with TWO given conditions

## The solutions

Case 1:  $a^2 - 4b > 0$ :

$$u(x) = e^{-\frac{ax}{2}} \left( c_1 e^{\sqrt{a^2 - 4b} x/2} + c_2 e^{-\sqrt{a^2 - 4b} x/2} \right)$$

Case 2: a2 - 4b < 0:

$$u(x) = e^{-\frac{ax}{2}} \left[ A \sin\left(\frac{1}{2}\sqrt{4b - a^2}\right) x + B \cos\left(\frac{1}{2}\sqrt{4b - a^2}\right) x \right]$$

## **Numerical Equations Of Differential Equa**

**Xiang Xie** 

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