# Lecture 1

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## Classical

$$m \frac{d^2 x(t)}{dt^2} = - \frac{\partial V(x)}{\partial x}$$

## Quantum

$$i\hbar \frac{\partial \psi(x,t)}{\partial t} = - \frac{\hbar^2}{2m} \frac{\partial^2 \psi(x,t)}{\partial x^2} + V(x) \psi(x,t)$$

potential energy