CALCULUS II

@arch-techs

2021

CALCULUS II

by: @arch-techs

1. Khai triển Taylor

   - Displacement: Change in position of an object. We use the symbol Δx for displacement, where Δ means "change." A vector quantity with units of distance.
   - Distance: Total amount the object has moved. This depends on the whole path traveled, not just the starting and ending points. Distance traveled is always a non-negative number. A scalar quantity with units of distance.
   - Equation:

$$\Delta x = x - x_0 \tag{1}$$

Δx is displacement, x is the final position, x_0 is the initial position.
Displacement is the difference between the final and initial positions.

2. Average velocity and speed

$$\overline{v} = \frac{\Delta x}{\Delta t} \quad / \quad v_{arg} = \frac{d}{\Delta t}$$