

duction

ample:

ve that  $1 + \dots + n = \frac{n(n+1)}{2}$

e.,  $\sum_{i=1}^n i = \frac{n(n+1)}{2}$

call it what you want"

Base case:

$$n=1$$

$$1 = \frac{1 \cdot (1+1)}{2} \quad \checkmark$$

Inductive step:

Assume this is true for  $n=k$ .

Want to show it is true for  $n=k+1$ .

By assumption (inductive hypothesis)

$$1 + \dots + k = \frac{k(k+1)}{2}$$

Add  $k+1$  to both sides

$$1 + \dots + k + (k+1) = \frac{k(k+1)}{2} + (k+1)$$

$$= \frac{(k+2)(k+1)}{2}$$

# ADVANCED CALCULUS

ANDREAS KOCH

This section contains a comprehensive collection of mathematical derivations and diagrams. Key elements include:

- Wave Equations:**  $\phi = BS \cos(\omega t)$ ,  $v = \sqrt{\frac{3kT}{m}} = \sqrt{\frac{3kT}{M}}$ ,  $\omega = 2\pi f$ ,  $\lambda = \frac{v}{f}$ ,  $v = \lambda \omega$ .
- Vector Calculus:**  $\vec{v} = v_x \hat{i} + v_y \hat{j} + v_z \hat{k}$ ,  $\vec{a} = \frac{d\vec{v}}{dt}$ ,  $\vec{r} = r \hat{r}$ ,  $\vec{v} = \dot{r} \hat{r} + r \dot{\theta} \hat{\theta}$ .
- Trigonometric Identities:**  $\sin^2 \theta + \cos^2 \theta = 1$ ,  $\sin(2\theta) = 2 \sin \theta \cos \theta$ ,  $\cos(2\theta) = \cos^2 \theta - \sin^2 \theta$ .
- Calculus:**  $\frac{d}{dt} \left( \frac{1}{2} m v^2 \right) = m v a$ ,  $\frac{d}{dt} \left( \frac{1}{2} I \omega^2 \right) = I \omega \dot{\omega}$ .
- Diagrams:** Multiple graphs showing sinusoidal waves, vector components, and geometric relationships between angles and lengths.

# Advanced Calculus Ufpr

**JG Myers**



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