

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:

$$n=1$$

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



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

The bottom section of the image is a complex grid of mathematical and physical equations. It includes various formulas such as  $F = mg$ ,  $E = \frac{1}{2}mv^2$ ,  $\phi = BS \cos(\omega t)$ ,  $v = \sqrt{\frac{3kT}{m}}$ ,  $\lambda = \frac{h}{p}$ , and  $\omega = 2\pi f$ . There are also several diagrams showing wave patterns, force vectors, and kinematic graphs. The equations are arranged in a structured, grid-like fashion, typical of a lecture slide or a reference sheet.

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**K Morrison**



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