

duction

ample:

ove that $1+...+n = \frac{n(n+1)}{2}$

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

all 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):

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

Add $(k+1)$ to both sides

$$\begin{aligned} 1+...+k+(k+1) &= \frac{k(k+1)}{2} + (k+1) \\ &= \frac{(k+2)(k+1)}{2} \end{aligned}$$

ADVANCED CALCULUS

ANDREAS KOCH

$$\begin{aligned}
 & \sqrt{\frac{3kT}{M}} \quad S_x = \frac{\sigma_0}{2} \left(1 + 2 \frac{V_{2kT}}{a_0} + \frac{V_{2kT}^2}{a_0^2} \right) - \frac{V_{2kT}^2}{2a_0} \quad \phi = BS \cos(\beta\omega) \quad v = \sqrt{\frac{3kT}{m}} = \sqrt{\frac{3kT}{M}} \quad S_x = \frac{\sigma_0}{2} \left(1 + 2 \frac{V_{2kT}}{a_0} + \frac{V_{2kT}^2}{a_0^2} \right) - \frac{V_{2kT}^2}{2a_0} \quad \phi = BS \cos(\beta\omega) \\
 & \omega = x - x_0 \quad x = x_0 + \omega t \quad a_{\text{max}} = \frac{v_{2kT}^2}{2a_0} \quad N = \frac{4}{\pi} \quad \omega = x - x_0 \quad x = x_0 + \omega t \quad a_{\text{max}} = \frac{v_{2kT}^2}{2a_0} \quad N = \frac{4}{\pi} \quad \omega = 2\pi R_0 = \omega R \quad S_x = \dot{x} - \dot{x}_0 = v_{0x} t + \frac{a_{\text{max}} t^2}{2} \quad \phi = BS \cos(\beta\omega) \\
 & S = \dot{x}_0 t + \frac{a_{\text{max}} t^2}{2} \quad v = \frac{3}{2} \quad \omega = 2\pi R_0 = \omega R \quad S_x = \dot{x} - \dot{x}_0 = v_{0x} t + \frac{a_{\text{max}} t^2}{2} \quad \phi = BS \cos(\beta\omega) \\
 & V = \frac{k_B T_0}{\sigma} \quad E = E_k + E_p = \text{const} \quad A = -F_{\text{ext}} S \quad P_1 = P - F_x \quad P_2 = F_x \frac{S_x}{S_0} \quad f = \frac{f_0}{\sqrt{1-\beta}} \quad W = \frac{k_B T_0}{\sigma} \quad E = E_k + E_p = \text{const} \quad A = -F_{\text{ext}} S \quad P_1 = P - F_x \quad P_2 = F_x \quad A = F S \cos\alpha \\
 & A = mgh \quad A = \frac{a_{\text{max}}}{2} \quad A = -F_{\text{ext}} S \quad P_1 = P - F_x \quad P_2 = F_x \frac{S_x}{S_0} \quad f = \frac{f_0}{\sqrt{1-\beta}} \quad W = \frac{k_B T_0}{\sigma} \quad E = E_k + E_p = \text{const} \quad A = -F_{\text{ext}} S \quad P_1 = P - F_x \quad P_2 = F_x \quad A = F S \cos\alpha \\
 & \frac{mgh}{2} \quad V - V_0 = \beta V_0 (1 - e^{-t}) \quad \dot{a} = \frac{\ddot{x} - \ddot{x}_0}{t} \quad V_0 = V_0 - \omega t \quad v_0 = \frac{S}{t} \quad X_0 = \frac{1}{\omega C} \quad A = \frac{mgh^2}{2} - \frac{mgh}{2} \quad V - V_0 = \beta V_0 (1 - e^{-t}) \quad \dot{a} = \frac{\ddot{x} - \ddot{x}_0}{t} \quad V_0 = V_0 - \omega t \quad v_0 = \frac{S}{t} \quad X_0 = \frac{1}{\omega C} \\
 & \ddot{x} = \frac{m\omega^2}{2} = \omega U_x \quad S_x = \frac{\ddot{x}^2 - \ddot{x}_0^2}{2a_0} \quad P = \frac{ka}{\omega} \quad \ddot{x} = \frac{m\omega^2}{2} = \omega U_x \quad S_x = \frac{\ddot{x}^2 - \ddot{x}_0^2}{2a_0} \quad P = \frac{ka}{\omega} \\
 & T = 2\pi\sqrt{LC} \quad V = \frac{2}{\omega} \quad R = \frac{m\omega}{\sigma B} \quad T = \frac{2\pi m}{gB} \quad v = \frac{m}{M} = \frac{N}{N_A} \quad a_{\text{max}} = \frac{v_{0x} + v}{2} \quad a_0 = \frac{v_{0x} + v}{\sqrt{LC}} \quad T = 2\pi\sqrt{LC} \quad V = \frac{2}{\omega} \quad R = \frac{m\omega}{\sigma B} \quad T = \frac{2\pi m}{gB} \quad v = \frac{m}{M} = \frac{N}{N_A} \quad a_{\text{max}} = \frac{v_{0x} + v}{2} \\
 & \frac{\ddot{x} - \ddot{x}_0}{t} = \frac{a_{\text{max}}}{2} \quad \beta = \frac{v_{0x}}{c^2} \quad \eta = \frac{a_0}{a} = \frac{N_0}{N} \quad \ddot{x} = \frac{m\omega^2}{4(1-\beta)} \quad S_x = \frac{\sigma_0}{2} \left(1 + \frac{V_{2kT}}{a_0} \right)^2 - \frac{V_{2kT}^2}{2a_0} \quad \frac{\ddot{x} - \ddot{x}_0}{t} = \frac{a_{\text{max}}}{2} \quad \beta = \frac{v_{0x}}{c^2} \quad \eta = \frac{a_0}{a} = \frac{N_0}{N} \quad \ddot{x} = \frac{m\omega^2}{4(1-\beta)} \quad S_x = \frac{\sigma_0}{2} \left(1 + \frac{V_{2kT}}{a_0} \right)^2 - \frac{V_{2kT}^2}{2a_0} \\
 & U + A \quad \rho V = vR \quad \ddot{x} = \ddot{x}_0 + \ddot{a}t \quad Q = \text{cm}(v_0 - v) = U + A \quad \ddot{x} = \ddot{x}_0 + \ddot{a}t \quad \rho V = vR \quad \ddot{x} = \ddot{x}_0 + \ddot{a}t \quad Q = \text{cm}(v_0 - v) = U + A \quad \ddot{x} = \ddot{x}_0 + \ddot{a}t \\
 & \frac{2\pi}{\omega} = 2\pi v \quad T = 2\pi\sqrt{\frac{C}{L}} \quad S_x = V_{0x} t + \frac{a_{\text{max}} t^2}{2} \quad \ddot{x} = \frac{3}{4} a T \quad \omega = \frac{2\pi}{T} = 2\pi v \quad S_x = V_{0x} t + \frac{a_{\text{max}} t^2}{2} \quad \ddot{x} = \frac{3}{4} a T \quad \omega = \frac{2\pi}{T} = 2\pi v \quad S_x = V_{0x} t + \frac{a_{\text{max}} t^2}{2}
 \end{aligned}$$

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