

$$M = P \cdot \frac{J}{1 - (1 + J)^{-N}}$$

$$\frac{-b\pm\sqrt{b^2-4ac}}{2a}$$

$$\begin{array}{l}x=\frac{n}{x}\\x^2=n\\x=\sqrt{n}\end{array}$$

$$\begin{bmatrix} 1 & 0 & 0 \\ 0 & \cos\theta & -\sin\theta \\ 0 & \sin\theta & \cos\theta \end{bmatrix}$$

$$v_i'=\sum_{j=1}^n A_{ij}\cdot v_j$$

$$\sigma = \sqrt{\frac{1}{n-1} \sum_{i=1}^n (x_i - \mu)^2}$$

$$f(x)=\sqrt{x}$$

$$F=\frac{Gm_1m_2}{r^2}$$

$$d=\sqrt{(x_1-x_2)^2+(y_1-y_2)^2+(z_1-z_2)^2}$$

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$$\mathbf{F}_{ab} = -G \frac{m_a m_b}{|\mathbf{r}_{ab}|^2} \, \hat{\mathbf{r}}_{ab}$$

$$\hat{\mathbf{r}}_{ab} = \frac{\mathbf{r}_b - \mathbf{r}_a}{|\mathbf{r}_b - \mathbf{r}_a|}$$

$$\mathbf{1}$$

$$S=\sum_{i=1}^Nf\left(a_i\right)$$

$$S_1=\sum_{i=1}^{\lfloor \frac{N}{2} \rfloor} f\left(a_i\right) \qquad S_2=\sum_{i=\lfloor \frac{N}{2} \rfloor+1}^N f\left(a_i\right)$$

$$\text{speedup} = \frac{t_s}{t_c} = \frac{4,100}{1,660,000} = 0.00246$$

$$C_{ij}=\sum_{k=1}^nA_{ik}B_{kj}=A_{i1}B_{1j}+A_{i2}B_{2j}+\ldots+A_{in}B_{nj}$$

$$y=\sqrt{r^2-x^2}$$