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

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

$$x = \frac{n}{x}$$
$$x^2 = n$$
$$x = \sqrt{n}$$

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

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

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

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

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

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

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

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

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

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

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

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

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

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

$$F = k_\mathrm{e} \frac{q_1 q_2}{r^2}$$

$$E = k_\mathrm{e} \frac{q}{r^2}$$