

Basics

scalar * $k * [a, b, c] = [ka, kb,$
vector $kc]$

vector + $[a, b, c] + [d, e, f] =$
vector $[a+d, b+e, c+f]$

vector * $[u1, u2] * [v1, v2] = (u1$
vector $* v1) + (u2 * v2)$

Matrix * Matrix

$$\begin{matrix} m \\ \begin{matrix} \square & \square & \square \\ \square & \square & \square \\ \square & \square & \square \\ \square & \square & \square \end{matrix} \\ l \end{matrix} \cdot \begin{matrix} n \\ \begin{matrix} \square & \square & \square & \square \\ \square & \square & \square & \square \\ \square & \square & \square & \square \end{matrix} \\ m \end{matrix} = \begin{matrix} n \\ \begin{matrix} \square & \square & \square & \square \\ \square & \square & \square & \square \\ \square & \square & \square & \square \\ \square & \square & \square & \square \end{matrix} \\ l \end{matrix}$$

$$A \cdot B = C$$

C

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Page 1 of 1.

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