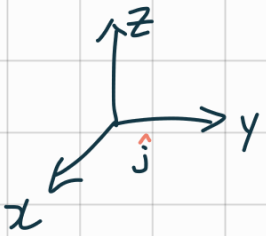
$\vec{a} \times \vec{b}$ 외적 (Cross product) ⇒ 벡터가 나옴

$\vec{a} \cdot \vec{b}$ 내적 (dot product)



$\vec{a} = (3,2,5) = 3\hat{i} + 2\hat{j} + 5\hat{k}$

$\vec{b} = (2,3,2) = 2\hat{i} + 3\hat{j} + 2\hat{k}$

$\vec{a} \times \vec{b} = |\vec{a}||\vec{b}|\sin\theta$

크기

$$\begin{vmatrix} i & j & k \\ 3 & 2 & 5 \\ -2 & 1 & 3 \end{vmatrix} = i\begin{vmatrix} 2 & 5 \\ 1 & 3 \end{vmatrix} - j\begin{vmatrix} 3 & 5 \\ -2 & 3 \end{vmatrix} + k\begin{vmatrix} 3 & 2 \\ -1 & 1 \end{vmatrix}$$

$(6-5)i - 19j + 5k$

$i - 19j + 5k$

$\vec{a} \times \vec{b} = \vec{b} \times \vec{a}$ 모르는 법칙(?)