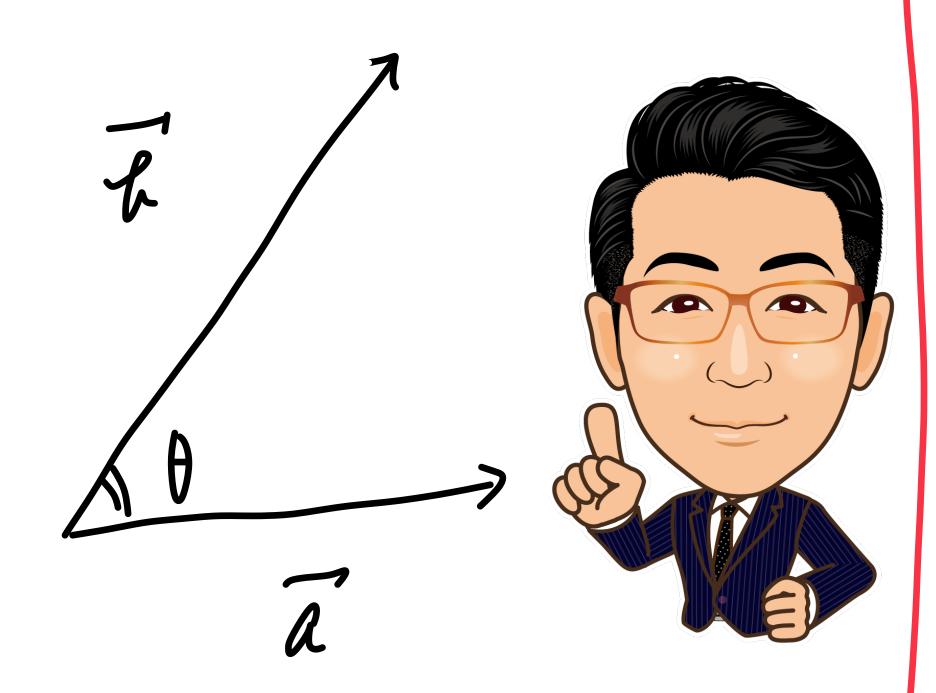


## 数学B 第1章 平面上のベクトル ベクトルの内積(1)

## ○ベクトルの内積(1)

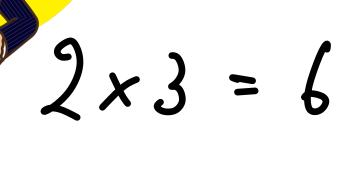




$$\vec{\lambda} = \begin{pmatrix} \hat{\alpha}_1 \\ \hat{\alpha}_2 \end{pmatrix}, \quad \vec{\lambda} = \begin{pmatrix} \hat{\lambda}_1 \\ \hat{\lambda}_2 \end{pmatrix}$$

$$\overrightarrow{a} \cdot \overrightarrow{c} = |\overrightarrow{a}| \times |\overrightarrow{c}| \cos \theta$$

$$\overline{a} \cdot \overline{l}' = a_1 \times l_1 + a_2 \times l_2$$



$$2 \cdot 3 = 6$$

$$|\overrightarrow{a}'| = 3$$
,  $|\overrightarrow{l}'| = 2$ .  $|\overrightarrow{l}'| = 60^{\circ}$   $|\overrightarrow{a}''| = (\frac{1}{4})$ ,  $|\overrightarrow{l}''| = (\frac{-2}{3})$ 

$$\overline{A} \cdot \overline{L} = 3 \times 2 \times \cos 60^\circ$$



$$\overline{A} = \begin{pmatrix} 1 \\ 4 \end{pmatrix}, \quad \overline{U} = \begin{pmatrix} -2 \\ 3 \end{pmatrix}$$

$$\vec{a} \cdot \vec{t} = 3 \times 2 \times \cos 60^{\circ}$$

$$= 3 \times 2 \times \cos 60^{\circ}$$

$$= -2 + 12 = 10$$