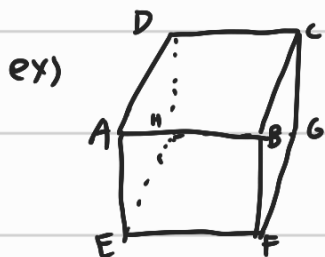


벡터 : 크기와 방향이 있음(속도)

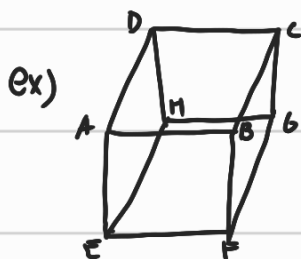
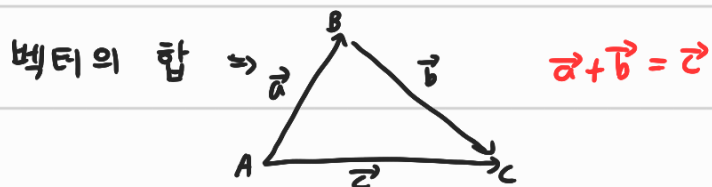
스칼라 : 속력



$$\overrightarrow{AB} = \vec{a}, \overrightarrow{AD} = \vec{b}, \overrightarrow{AE} = \vec{c}$$

$$\textcircled{1} \overrightarrow{HG} = \vec{a} \quad \textcircled{2} \overrightarrow{EH} = \vec{b} \quad \textcircled{3} \overrightarrow{CG} = \vec{c}$$

$$\textcircled{4} \overrightarrow{AC} = \vec{a} + \vec{b} \quad \textcircled{5} \overrightarrow{DB} = \vec{a} + \vec{b}$$

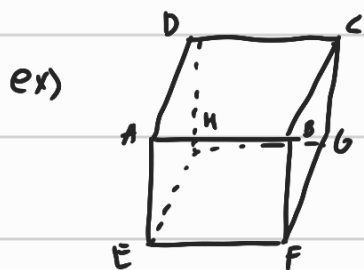


$$\overrightarrow{AB} = \vec{a}, \overrightarrow{AD} = \vec{b}, \overrightarrow{AE} = \vec{c}$$

$$\overrightarrow{AC}, \overrightarrow{AG} \text{ 을 } \vec{a}, \vec{b}, \vec{c} \text{ 로 나타내자}$$

$$\overrightarrow{AC} = \overrightarrow{AB} + \overrightarrow{BC} = \vec{a} + \vec{b}$$

$$\overrightarrow{AG} = \overrightarrow{AC} + \overrightarrow{CG} = \vec{a} + \vec{b} + \vec{c}$$



$$\overrightarrow{AB} = \vec{a}, \overrightarrow{AD} = \vec{b}, \overrightarrow{AE} = \vec{c}, \overrightarrow{AC} = \vec{d}$$

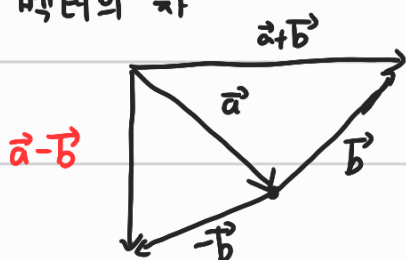
$$\textcircled{1} \overrightarrow{BA} = -\vec{a}$$

$$\textcircled{2} \overrightarrow{HE} = -\vec{b}$$

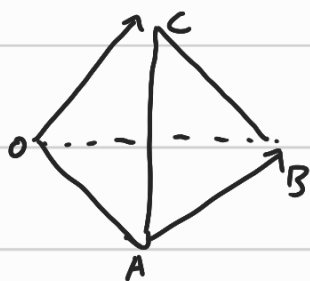
$$\textcircled{3} \overrightarrow{FB} = -\vec{c}$$

$$\textcircled{4} \overrightarrow{EG} = \vec{d}$$

벡터의 차



ex)



$$\vec{OA} = \vec{a}, \vec{OB} = \vec{b}, \vec{OC} = \vec{c}$$

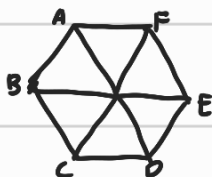
$$\textcircled{1} \vec{AC} = \vec{AO} + \vec{OC} = -\vec{a} + \vec{c}$$

$$\textcircled{2} \vec{AB} = \vec{AO} + \vec{OB} = -\vec{a} + \vec{b}$$

$$\textcircled{3} \vec{AB} + \vec{BC} - \vec{AC} = \vec{AC} - \vec{AC} = \vec{0}$$

연습문제

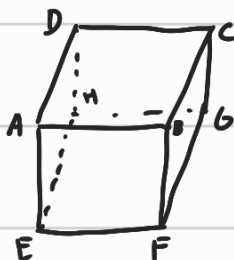
1.



$$\textcircled{1} \vec{AB} \text{ 와 같은 벡터는? } \vec{ED}, \vec{FO}, \vec{OC}$$

$$\textcircled{2} \vec{AE} \text{ 와 같은 벡터는? } \vec{BD}$$

2.



$$\vec{AB} = \vec{a}, \vec{AD} = \vec{b}, \vec{AE} = \vec{c}$$

$$\textcircled{1} \vec{DC} = \vec{a} \quad \textcircled{2} \vec{FG} = \vec{b} \quad \textcircled{3} \vec{BF} = \vec{c} \quad \textcircled{4} \vec{HG} = \vec{b}$$

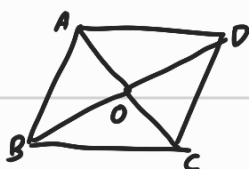
$$\textcircled{5} \vec{EH} = \vec{b} \quad \textcircled{6} \vec{CG} = \vec{c}$$

3. 그림 2 와 동일

$$\textcircled{1} \vec{BA} = -\vec{a} \quad \textcircled{2} \vec{GH} = -\vec{a} \quad \textcircled{3} \vec{HE} = -\vec{b} \quad \textcircled{4} \vec{GF} = -\vec{b}$$

$$\textcircled{5} \vec{FB} = -\vec{c} \quad \textcircled{6} \vec{GC} = -\vec{c}$$

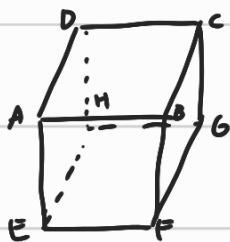
4.



$$\vec{OA} = \vec{a}, \vec{OB} = \vec{b}$$

$$\textcircled{1} \vec{AB} = -\vec{a} + \vec{b} \quad \textcircled{2} \vec{BC} = -\vec{b} - \vec{a} \quad \textcircled{3} \vec{CD} = -\vec{a} + \vec{b}$$

5.



$$\overrightarrow{AB} = \vec{a} \quad \overrightarrow{AD} = \vec{b}, \quad \overrightarrow{AE} = \vec{c}$$

$$\textcircled{1} \overrightarrow{AG} = \vec{a} + \vec{b} + \vec{c}, \quad \overrightarrow{BH} = -\vec{a} + \vec{c} + \vec{b}$$

$$2.1 \quad \vec{a} + \vec{b} + \vec{c} = \overrightarrow{AG} \quad 2.2 \quad \vec{a} - \vec{b} - \vec{c} = \overrightarrow{HE} + \overrightarrow{EA} + \overrightarrow{AB} = \overrightarrow{HB}$$

$$2.3 \quad -\vec{a} - \vec{b} - \vec{c} = \overrightarrow{GH} + \overrightarrow{HC} + \overrightarrow{CA} = \overrightarrow{GA}$$