

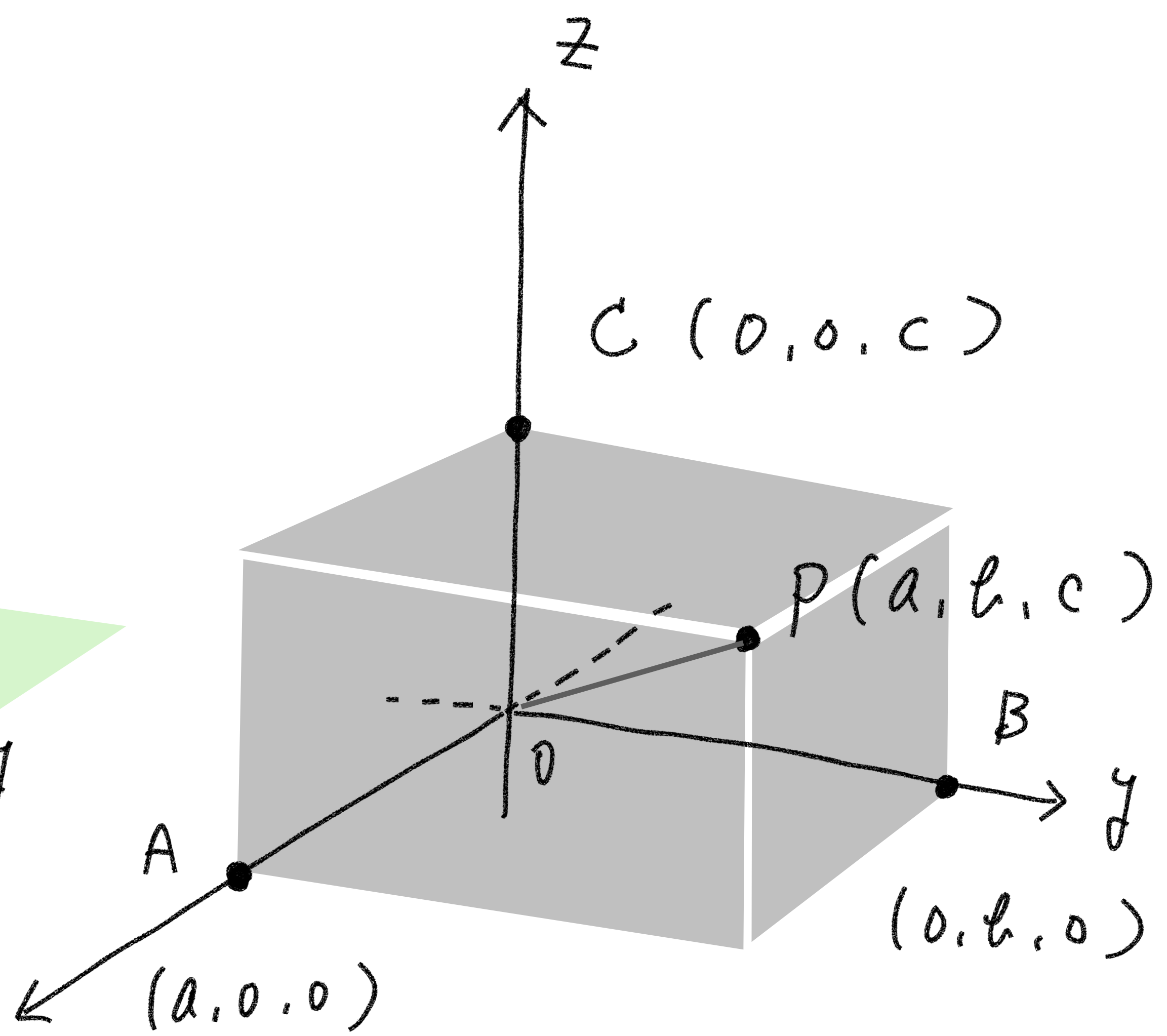
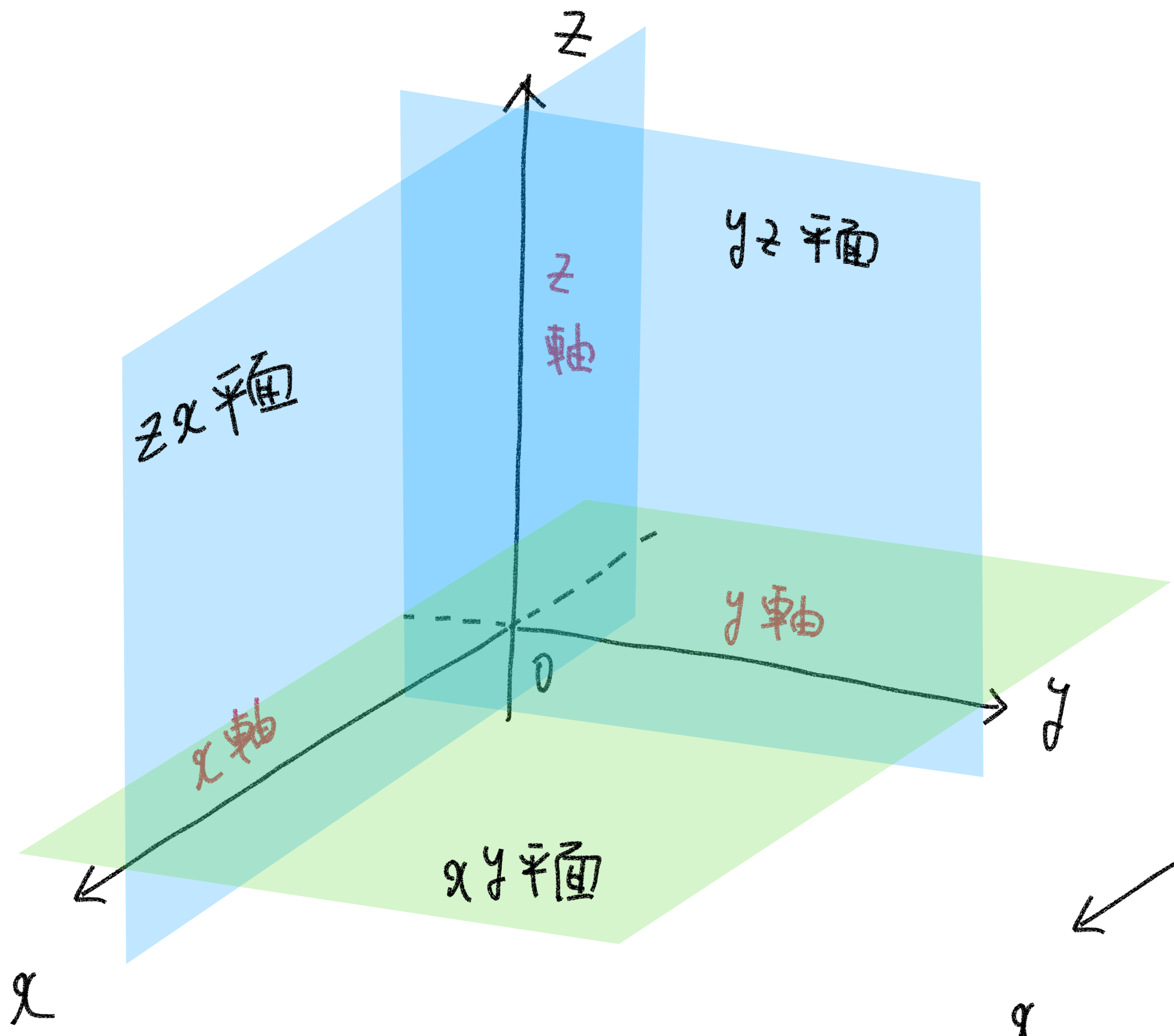


数学C

第2章 空間のベクトル

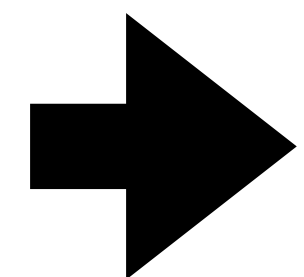
空間のベクトル導入



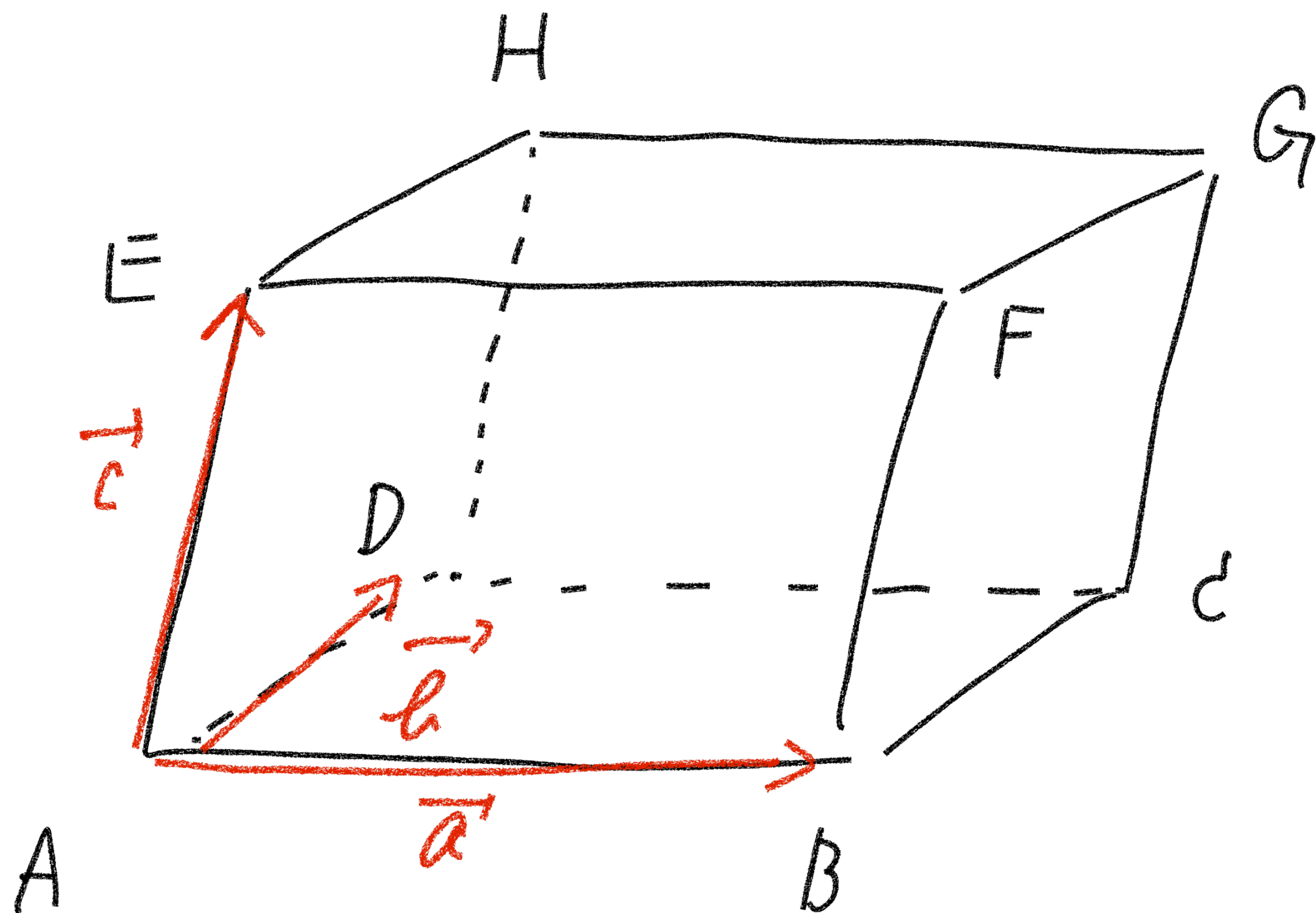


$$OP = \sqrt{a^2 + b^2 + c^2}$$

平行六面体 ABCD-EFGH



平行六面体の各面は、平行四辺形である



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

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

$$\begin{aligned} \overrightarrow{AG} &= \overrightarrow{AC} + \overrightarrow{CG} \\ &= \vec{a} + \vec{b} + \vec{c} \end{aligned}$$

$$\begin{aligned} \overrightarrow{FD} &= \overrightarrow{AD} - \overrightarrow{AF} \\ &= \vec{b} - (\vec{a} + \vec{c}) = -\vec{a} + \vec{b} - \vec{c} \end{aligned}$$