

$$\vec{a} = (1, 2, 3)$$

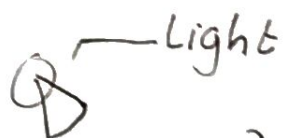
$$\vec{b} = (4, 5, 6)$$

$$\vec{a} \cdot \vec{b} = 1 \cdot 4 + 2 \cdot 5 + 3 \cdot 6 = 9 + 10 + 18 = 32$$

$$\vec{c} \perp \vec{d}, \quad \vec{c} \cdot \vec{d} = 0$$

$$\vec{c} \angle \vec{d}, \quad \vec{c} \cdot \vec{d} > 0$$

$$\vec{c} \searrow \vec{d}, \quad \vec{c} \cdot \vec{d} < 0$$



$$\vec{L} \cdot \vec{n} > 0$$



$$\vec{L} \cdot \vec{n} = 1$$



$$\vec{L} \cdot \vec{n} < 0$$

$$|\vec{n}| = 1$$

$$|\vec{L}| = 1$$