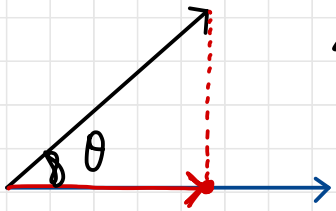
< Vector 내적 >



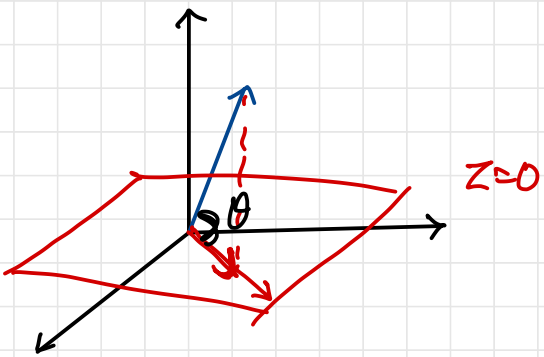
B (3, 2, 4)

$A \cdot B = |A||B| \cos\theta$

A (2, 1, 1)

$3 \cdot 2 + 2 \cdot 1 + 4 \cdot 1 =$

$\cos\theta = \frac{A \cdot B}{|A|\,|B|}$



3차원의 벡터를 2차원으로 축소 可

< Vector 외적 >

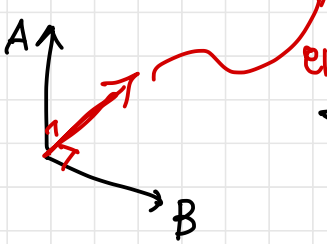
$X = AB\sin\theta$

$ax + by + cz + d = 0$

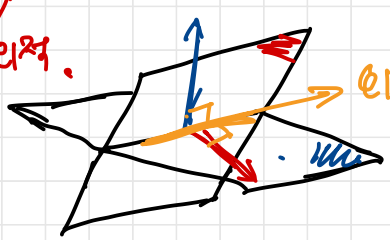
(a, b, c)

$A(a, b, c) \times B(d, e, f)$

$$\begin{matrix} i & j & k \\ a & b & c \\ d & e & f \end{matrix} \Longrightarrow (bf - ce)i + -(af - cd)j + (ae - bd)k$$

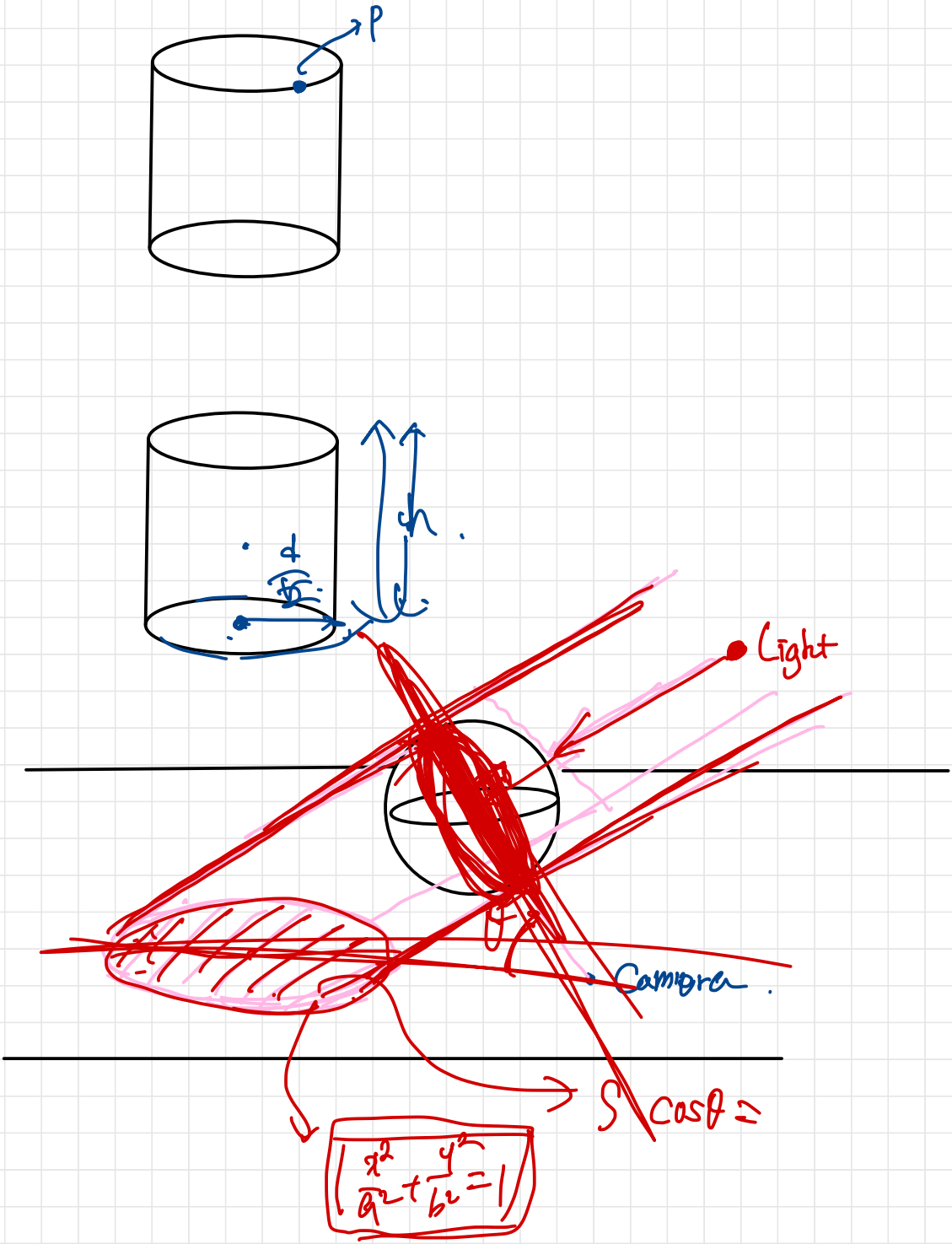


외적.



두 평면의 법선의 교점

! Color printing.


P
d
h
Light
Camera
S cosθ ≈
$\frac{x^2}{a^2}+\frac{y^2}{b^2}=1$