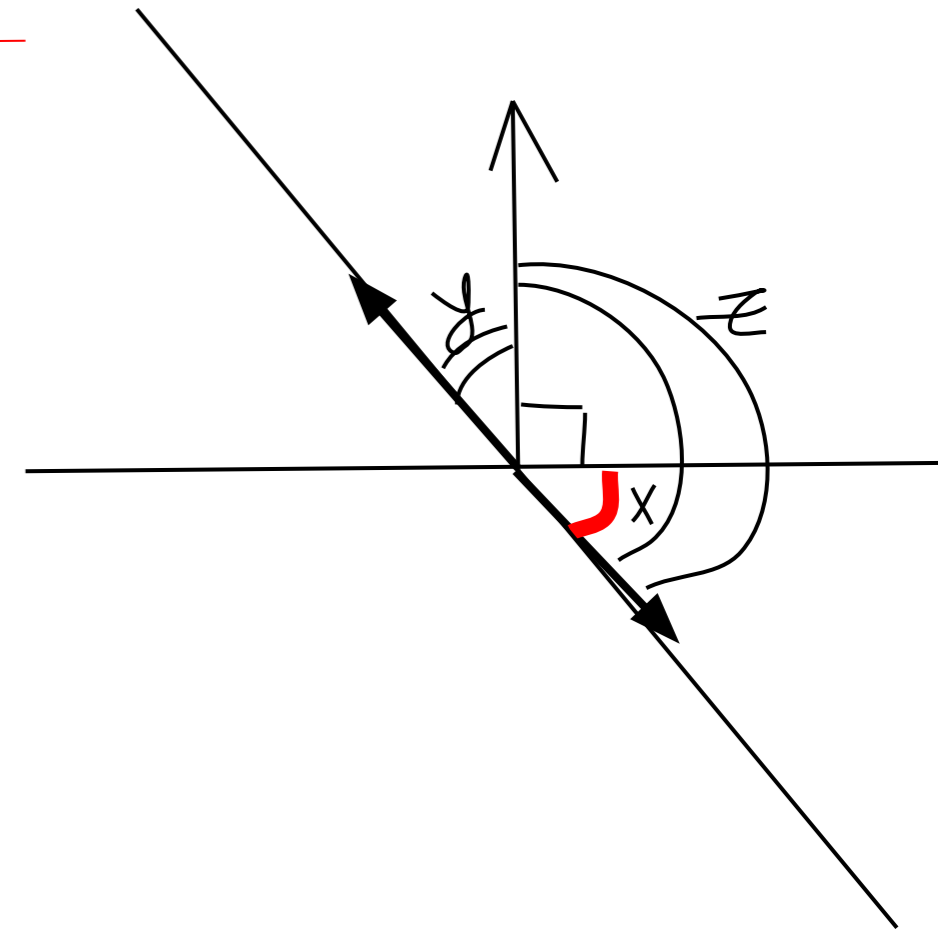
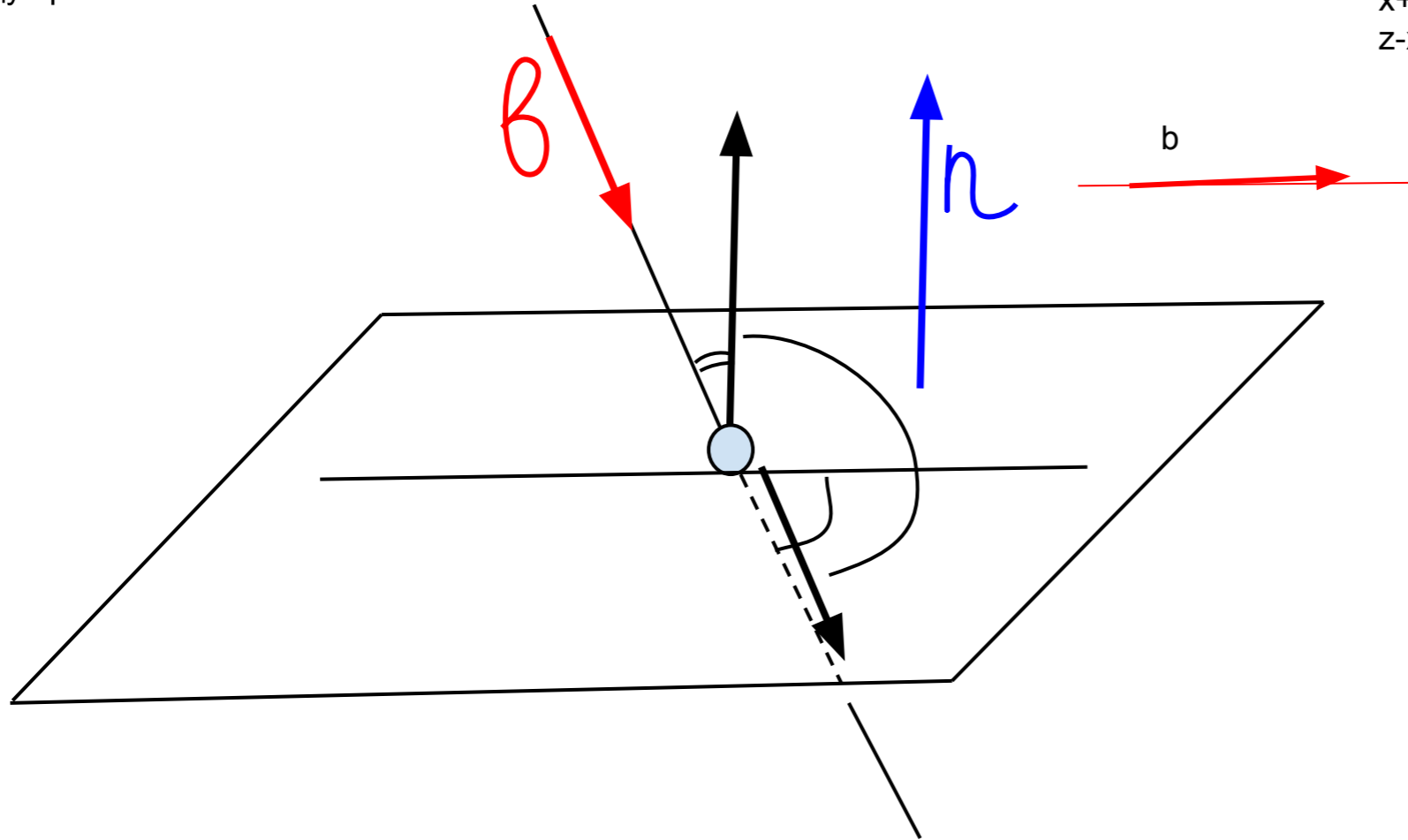


Угол между прямой и плоскостью

Общий метод - в координатах

$$\begin{aligned} x+y=P/2 &\Rightarrow y=P/2-x & \cos(P/2-x)=\sin x \\ z-x=P/2 &\Rightarrow z=P/2+x & \cos(P/2+x)=-\sin x \end{aligned}$$



$n, b \quad |n|, |b| \quad (n, b)$

$$\sin x = |\cos(n, b)| = |(n, b)| / |n| * |b| = \cos y$$

$$\begin{aligned} x+y=P/2 &\Rightarrow x=P/2-y \\ \sin(P/2-y) &= \sin(\pi/2) * \cos(y) - \sin(y) * \cos(\pi/2) = 1 * \cos(y) - 0 * \sin(y) = \cos(y) \end{aligned}$$