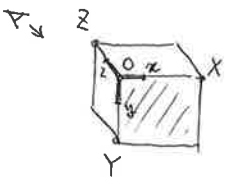

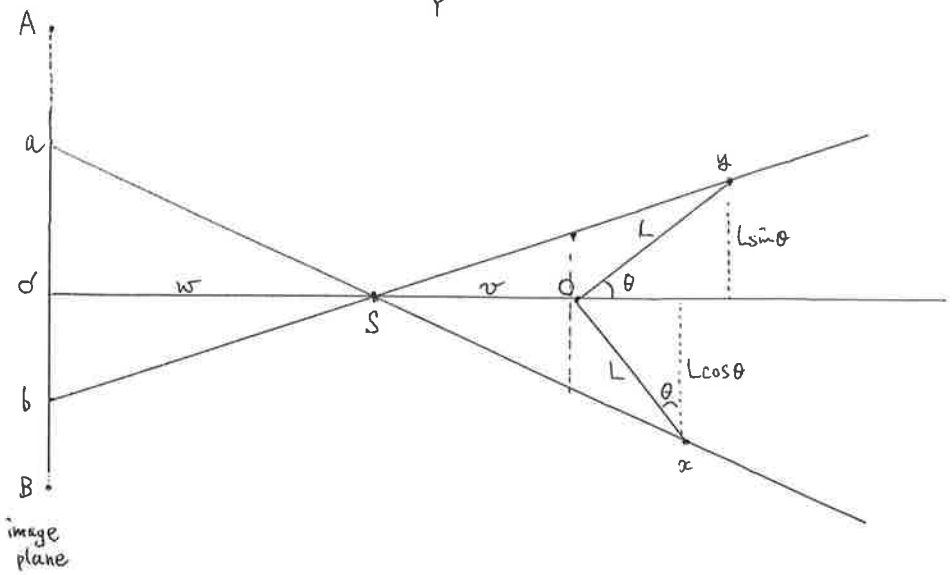

$$\frac{w}{a} = \frac{v + L\sin\theta}{L\cos\theta}$$

$$\frac{w}{b} = \frac{v + L\cos\theta}{L\sin\theta} \qquad \xrightarrow{\text{solve}} \quad (v, w, \theta)$$

$$\frac{w}{c} = \frac{v}{L}$$

↓ fix: v, w, θ
$a, b, c \rightarrow A, B, C$
$L, L, L \rightarrow X, Y, Z$

$$\frac{w}{A} = \frac{v}{X\cos\theta} + \tan\theta$$

$$\frac{w}{B} = \frac{v}{Y\sin\theta} + \cot\theta$$

$$\frac{w}{C} = \frac{v}{Z}$$

↓

$$X = \frac{v}{\cos\theta}\left(\frac{w}{A} - \tan\theta\right)^{-1}$$

$$Y = \frac{v}{\sin\theta}\left(\frac{w}{B} - \cot\theta\right)^{-1}$$

$$Z = v \cdot \frac{C}{w}$$