4c) We can compute a 3d print from a 2d point.

Via the eq before

$$r \cdot \vec{n} = h$$

then we are given 
$$(x,y)$$
 in 2d to find  $(\widetilde{X},\widetilde{Y},\widetilde{Z})$   
let  $\widetilde{X} = \frac{x\widetilde{Z}}{f}$   $\widetilde{Y} = \frac{y\widetilde{Z}}{f}$   $\widetilde{Z} = \widetilde{Z}$   
then wing  $r.\vec{n} = h$ 

$$(\frac{x\tilde{z}}{f},\frac{y\tilde{z}}{f},\tilde{z})\cdot\vec{n}=170$$

$$\frac{2}{Z} = \frac{f \cdot (170)}{(i, v, f) \cdot \vec{n}} \quad \vec{\chi} = \frac{2}{f} \quad \vec{\gamma} = \frac{1}{f}$$

to find (X, Y, Z)