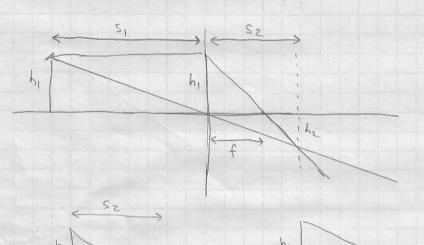


If we place the image plane at this distance then the scene point will appear sharp or in focus.

What is the relation between the distance of the scene point, the focal distance and the optimal distance of the imasky plane?



hi = Si

$$f = S_1$$

$$S_2 - f = S_2$$

Szf = 5,52 - fs,

$$\frac{1}{S_1} = \frac{1}{f} - \frac{1}{S_2}$$

$$\frac{1}{f} = \frac{1}{S_1} + \frac{1}{S_2}$$

For a fixed f, need to adjust the distance of the imaging plane so that a scene point is in focus.

5, 1 52 L

5, L S21