

P # B

Ch 23 - Worksheet

$$f = 10.0 \text{ cm}$$

$$S_{o1} = 10.2 \text{ cm}$$

$$S_{o2} = 11.0 \text{ cm}$$

Object #1

$$\frac{1}{S_o} + \frac{1}{S_i} = \frac{1}{f}$$

$$\frac{1}{10.2} + \frac{1}{S_i} = \frac{1}{10}$$

$$S_i^{-1} = 10^{-1} - 10.2^{-1}$$

$$S_{i1} = 510 \text{ cm}$$

Object #2

$$\frac{1}{11} + \frac{1}{S_i} = \frac{1}{10}$$

$$S_i^{-1} = 10^{-1} - 11^{-1}$$

$$S_{i2} = 110 \text{ cm}$$

