

test #1 problem 11

lens #1: $\frac{1}{o} + \frac{1}{i} = \frac{1}{f} \Rightarrow \frac{1}{i} = \frac{1}{20} - \frac{1}{40} = \frac{1}{40} \Rightarrow i = 40 \text{ cm to right of \#1}$

lens #2: o is a negative number because it is on the right of #2.

$\frac{1}{i} = \frac{1}{f} - \frac{1}{o} = \frac{1}{10} - \frac{1}{(-10)} = \frac{1}{5} \Rightarrow i = 5 \text{ to right of \#2}$

