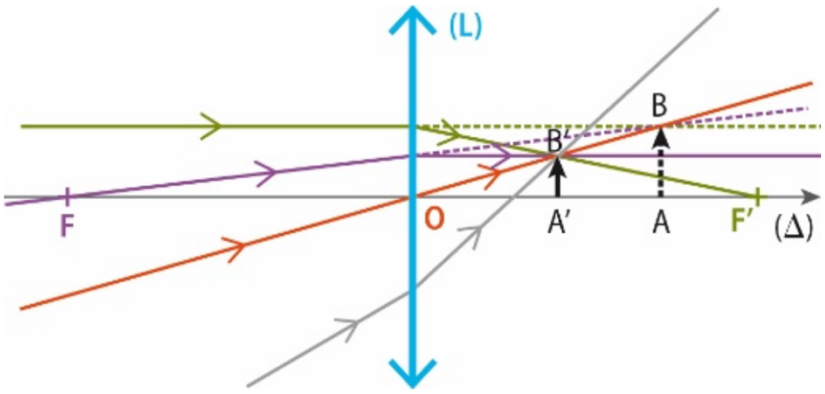
Correction des exercices – Approfondir

75 a. $\overline{OA'} = \frac{1}{C+\frac{1}{\overline{OA}}} = 4{,}1$ cm et $\overline{A'B'} = \frac{\overline{OA'}}{\overline{OA}}\overline{AB} = 1{,}2$ cm.

b.



76 a. $\gamma = \frac{\overline{OA'}}{\overline{OA}} = -1$ donc $\overline{OA'} = -\overline{OA}$

b. $\frac{1}{\overline{OA'}} = \frac{1}{\overline{OA}} + \frac{1}{f'}$ donc on remplace : $-\frac{1}{\overline{OA}} = \frac{1}{\overline{OA}} + \frac{1}{f'}$

D'où $\frac{1}{f'} = \frac{-2}{\overline{OA}}$ donc $f' = \frac{-\overline{OA}}{2}$

Géométriquement $\overline{OA} = -\overline{AO} = -\overline{OA'} = -\frac{-\overline{AA'}}{2}$ donc $f' = \frac{\overline{AA'}}{4}$