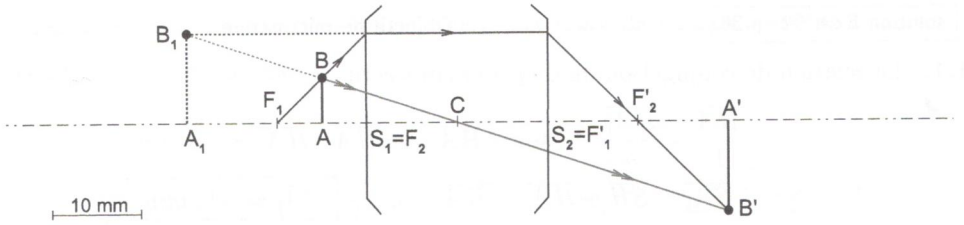
2.1.



2.2. $\dfrac{f_1}{\overline{S_1A}} + \dfrac{f_1'}{\overline{S_1A_1}} = 1$ donc $\dfrac{f_1'}{\overline{S_1A_1}} = 1 - \dfrac{f_1}{\overline{S_1A}} = \dfrac{\overline{S_1A} - f_1}{\overline{S_1A}}$ $\qquad \overline{S_1A_1} = \dfrac{\overline{f_1'.S_1A}}{\overline{S_1A} - f_1}$

$$\overline{S_1A} = \overline{S_1C} + \overline{CA} = -5,0\,mm \qquad \boxed{\overline{S_1A_1} = -20\,mm}$$

2.3. Grandissement transversal : $g_{y1} = \dfrac{\overline{A_1B_1}}{\overline{AB}} = \dfrac{1}{n}\dfrac{\overline{S_1A_1}}{\overline{S_1A}}$ $\qquad \boxed{g_{y1} = 2,0}$

3.2. Position de l'image finale :

$$\overline{S_2A'} = \frac{f_2'.\overline{S_2A_1}}{\overline{S_2A_1} - f_2} \quad \text{avec} \quad \overline{S_2A_1} = \overline{S_2S_1} + \overline{S_1A_1} = -40\,mm \qquad \boxed{\overline{S_2A'} = +20\,mm}$$