

Lecture title

I Section

I.1 SubSection

In this chapter, we'll explore the capabilities of this specific \LaTeX class:

- **Cosmetic Layout** : This class focuses on enhancing the visual aesthetics of your document, ensuring a professional appearance.
- **Customizable Accent Color** : You can easily adjust the accent color using `\definecolor{cPrim}{...}`.
- **Interactive Learning** : Certain sections can be hidden using the `versionProf` switch in the preamble, serving as blank spaces for student engagement.

Now, let's examine some key elements:

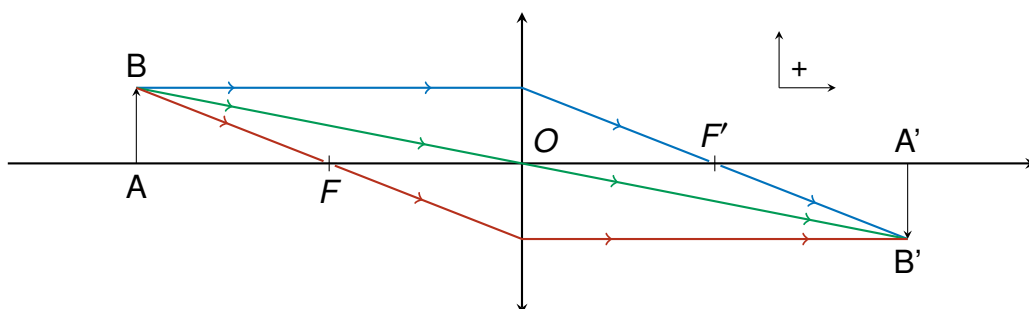


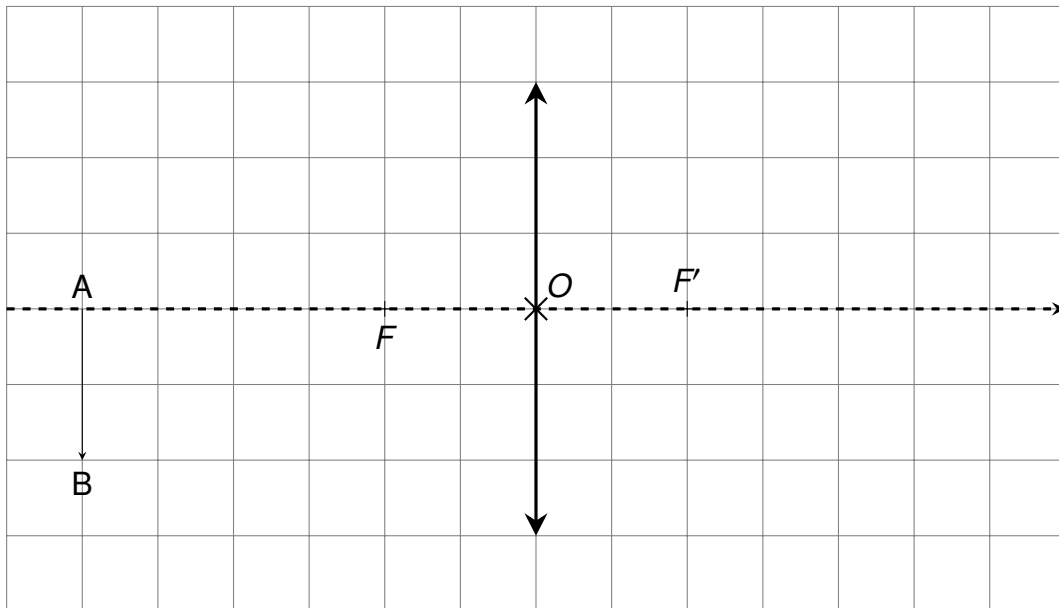
Figure 1: Lens, characterized by its optical center O and foci F and F' , forming the image $A'B'$ of an object AB .

This section remains visible at all times, providing essential content.

! This section contains critical information or reminders that should not be overlooked.

Application exercise: the microscope

A microscope uses removable lenses to image a small, distant object on the retina of the eye, or a camera. The system can be simply modeled¹ as follows :



Without completing the diagram:

1. Give the values of \overline{OA} and $\overline{OF'}$ and \overline{AB} .
2. Determine by calculation the position of the image $A'B'$ of object AB through the lens.
3. Determine by calculation the direction and size of the image $A'B'$.

By completing the diagram :

4. Draw the image $A'B'$ of object AB through the lens. Check the results of the previous questions.

¹In reality, the complete system comprises at least three lenses: an objective, an eyepiece and the eye's crystalline lens. We're simplifying the situation here so that we can do the exercise...