

**Physics Cup 2017 - Problem 4. 29th April 2017**

Ellips depicted in the figure below represents a real image of a circle, created by an ideal thin lens. The dot inside it depicts the image of the center of the circle. Both the ellips and the main optical axis of the lens lay in the plane of the figure. Reconstruct the position of the lens (ie. the position of the centre and the orientation).

*Remark:* you need to copy the ellips onto a sheet of paper and find there the position of the lens, eg. by using geometrical constructions. Alternatively, you can use Geogebra, <https://www.geogebra.org/>.

