Reflection and Mirrors - Lab Notebook Items

The following lab represents the first lab of ChemPhys Physics. Since it is the first lab, it has been already prepared as an example of how a lab report is formatted. Note that title is stated and each section of the report is labeled. The purpose is complete. The remaining section should be completed; then the report should be cut and taped into your lab notebook.

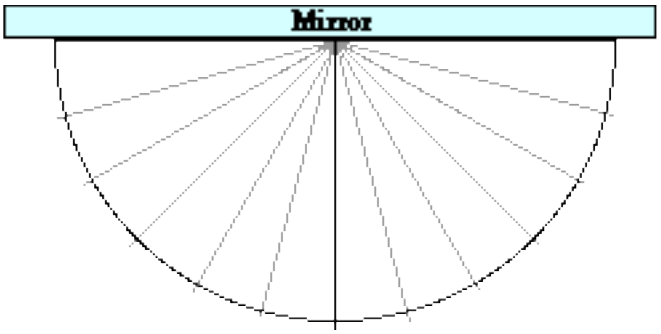
Completion of the Data section involves drawing laser light rays (with arrowheads); they should be labeled (A, B, C, ... or 1, 2, 3, ...). These labeled rays should be referenced in the Discussion of Results section.

Reflection Lab

Purpose:

To determine a general principle which describes the manner in which light reflects off a plane mirror surface.

Data:



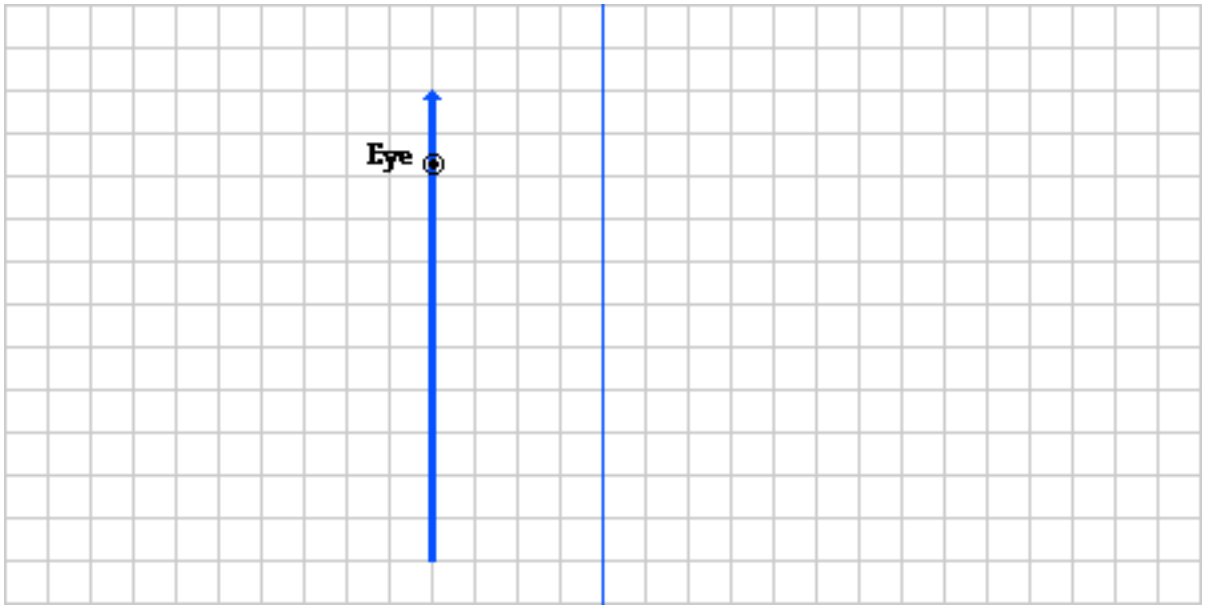
Conclusion:

Discussion of Results:

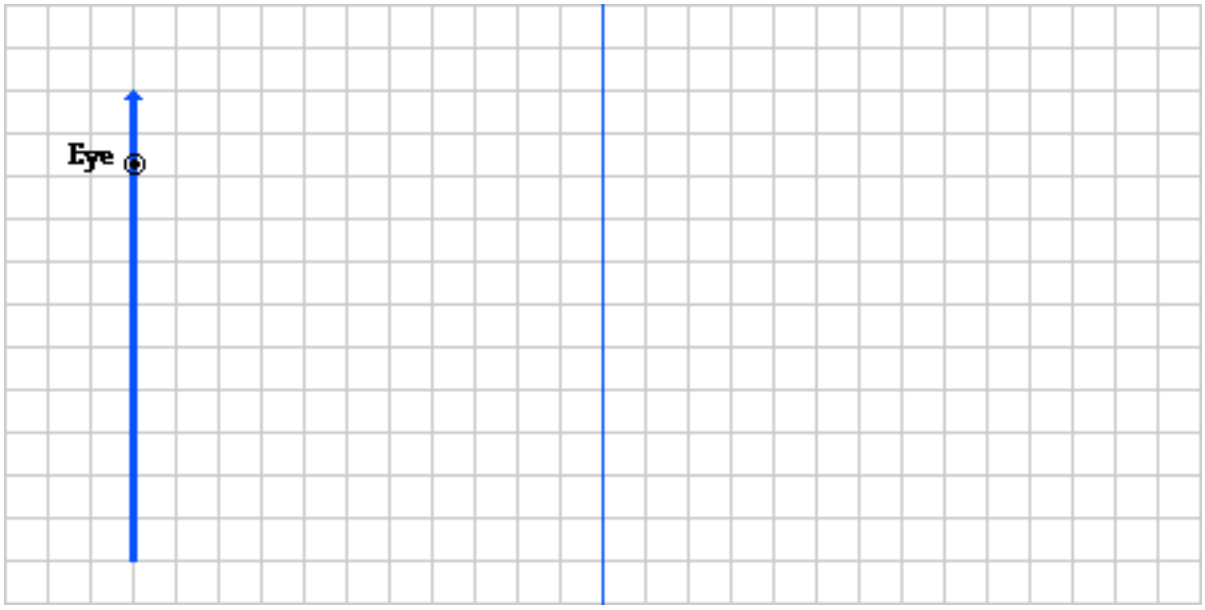
For the What Portion …? Lab:

Tape Situation A and Situation B into the Data section of your lab.

Situation A:

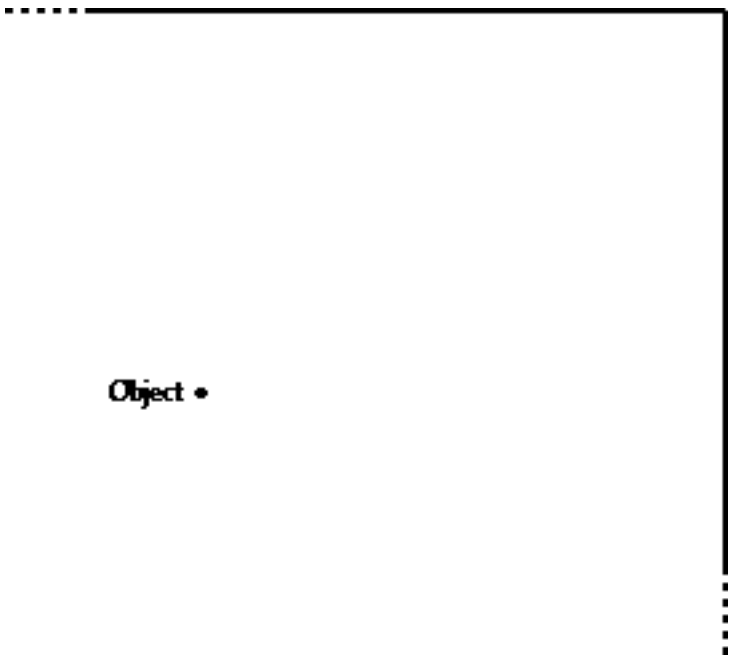


Situation B:



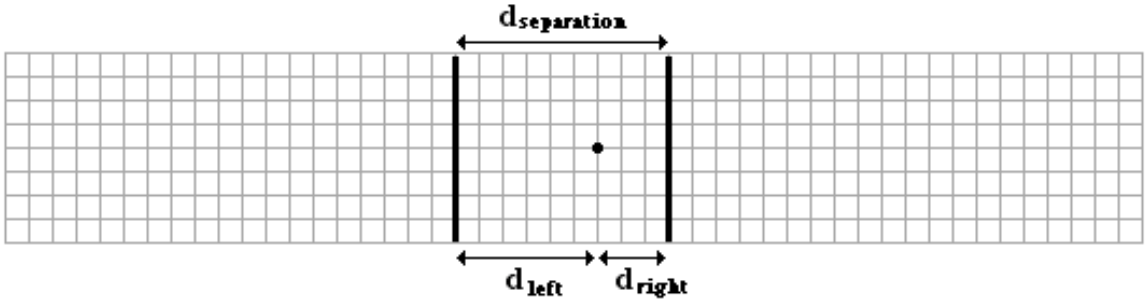
For the Right Angle Mirror Lab:

Tape the graphic below into the Data section of your lab. Leave about 3 inches of space above the horizontal line and to the right of the vertical line.

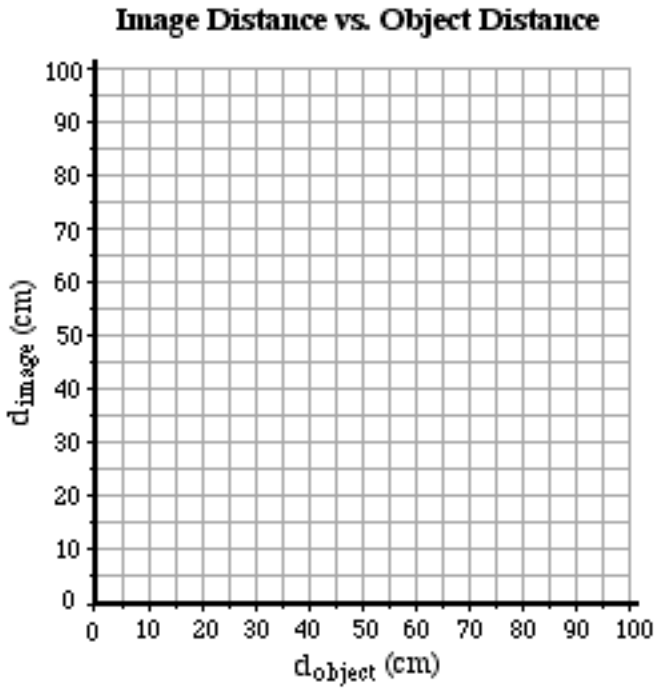


For the Infinity Derivation:

Tape the graphic below into the Data section of your lab.



For the Finding Smiley Lab:
Tape the graphic below into the Data section of your lab.



For the Mirror Equation Derivation:

Tape the graphic below into your lab notebook and use it in your derivation.