THE HUMAN EYE

Prof. Stephen Sekula 4/28/2011 Supplementary Material for PHY1308 (General Physics -Electricity and Magnetism)

ANNOLINCEMENTS

- Homework 12:
 - Due Monday, May 2 by 5pm
 - Contains two "quiz problems" do both, only one will be (randomly) graded.
 That's your quiz 9 grade.
 - TAs + Prof. not allowed to offer help on these problems

FINAL EXAM (MAY 5)

- . Multiple choice, true/false, and problems
 - expect about 4-5 problems and about 20 multiple choice and true false
 - You get _____ sheets for your formula sheet
- The Deal
 - . Everybody messes up an exam now and then
 - 3 of the problems will be directed only at material from exams
 1, 2, and 3
 - Do better on the problem that corresponds to your lowest in-class exam grade, and your lowest in-class exam grade will be replaced by the grade on the relevant problem









From the lensmaker equation, for a thick lens where $R_1>0$ and $R_2<0$ (double-convex)





Near-sighted individuals need corrective optics that make objects look closer than they actually are so that the eye can focus on them.

Far-sighted: cannot see close objects



Far-sighted: corrective optics



Location of virtual image from corrective converging lens (s'<O), which the eye can then see. Virtual image is further away than object.

Far-sighted individuals need corrective optics that make objects look further away than they actually are so that the eye can focus on them.

LASIK

(laser-assisted in situ keratomileusis)

