Phys 2120-4 11/16/12

Note Title

11/16/2012

Plane mirror: Find impge

Plane: Virtual Mirror image

Curred Myrror

Rules for dealing w/ light rays 1. Kay parallel to axis reflects thru focal 2. Pag thru focal point goes thru focal point 3. Ray thru center of curvatne goes back on itself. Concar Mirror

Real, Invited, Bigger

Inge

Tobi

F

Convex MINOV Inge Virtual, upright 5 maller. Useful for wider angle view of room, no Esdar Equation for all of this

Sign conventions: Left / Right 5 dist to obj posit objis on late - it obj in on vish 5 dist to image

pos if mage in front (last)

nes it image in bach (right) Mirror egn: Candleis on axis of a 15 cm focal length contave mirror. 36 cm from mirror. a) Where is image b) How do sizes compare c) Real or Virtual? としく、こと

In worked

A smaller

D.714

S'= 25.7 a

Obj

31.19 An object is fire focal langths from concare mirror a) Now do object & image heights compare b) Is image upright or inverted. $\begin{cases}
5 = 5t \\
5 + 5, = 1 \\
5 = 4
\end{cases}$ $\begin{cases}
5 = 5t \\
5 = 4
\end{cases}$ $\begin{cases}
5 = 5t \\
4 = 1.25t
\end{cases}$ $\begin{cases}
7 = 1.25t
\end{cases}$

Lenses! WY Curved surfaces Thin Lowers