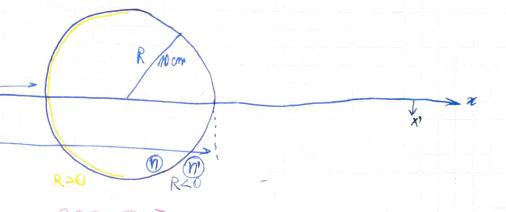
SEMINAR 5

O lentels sperios que nova de ambuso R si induele de repetito n, situata intr-un liched transparent, cu indiale de reportir (n')

$$n=1,5=3/2$$

 $n'=1,33=4/3$ R=10cm

Coracteristicale unei imagini a sumi object cu inaltimea y = 1 cm situat la 20 cm de lentila.



repractie 2 translatie repractie1

$$\varphi_2 = \frac{n'-n}{-R}; \quad \varphi_1 = \frac{n-n'}{R}$$
 $\langle \varphi \rangle = \text{diagratic}$

$$y_2 = \frac{4/3 - 3/2}{-10} = \frac{(8-9)/6}{-10} = \frac{-1}{-60} = \frac{1}{60} = \frac{5}{3} - \frac{1}{10}$$

1 disptrie = puterea de disptru a unei lentile cu distanta focala de un metru

$$p_1 = \frac{(3/2) - (4/3)}{10 \text{ cm}} = \dots = \frac{1}{60} \text{ cm}^{-1} = \frac{5}{8} \text{ m}^{-1}$$

$$R = \begin{pmatrix} 1 & 0 & 1 & -\frac{40}{300} \\ \frac{5}{3} & 1 & 0 & 1 \end{pmatrix} \begin{pmatrix} 1 & 0 & 0 \\ \frac{7}{300} & \frac{7}{300} & \frac{7}{300} \\ \frac{5}{3} & 1 & \frac{7}{9} & \frac{7}{9} \end{pmatrix}$$

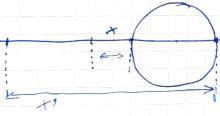
$$S = \begin{pmatrix} 1 & -\frac{x^{1}}{n^{1}} \\ 0 & 1 \end{pmatrix} \begin{pmatrix} R_{11} & R_{12} \\ R_{21} & R_{22} \end{pmatrix} \begin{pmatrix} 1 & \frac{x}{n^{1}} \\ 0 & 1 \end{pmatrix}$$

$$R_{11} \frac{x}{n} - R_{22} \frac{x'}{n'} - R_{21} \frac{xx'}{n'n'} + R_{12} = 0$$
 (condiția să se formeze imaginea)

$$\frac{7}{3} \cdot \frac{26}{4/3} \cdot \frac{7}{3} \cdot \frac{x'}{4/3} - \frac{80}{27} \cdot \frac{-20 \cdot x'}{16/9} - \frac{2}{15} m = 0 = 5$$

$$-\frac{35}{3}$$
 cm $-\frac{7x}{4.3}$ $-\frac{80}{27}$ m⁻¹ in fine ...

$$-\frac{175}{3} - \frac{200}{15} = x^{1} \left(\frac{7}{12} - \frac{4}{12}\right) = 3 - \frac{275}{3} = \frac{x^{3}}{4} = 3 x^{3} = \frac{-4 \cdot 215}{3} = \frac{1}{3} =$$



$$S_{11} = \frac{27}{3} = 3 = > M = 3$$

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