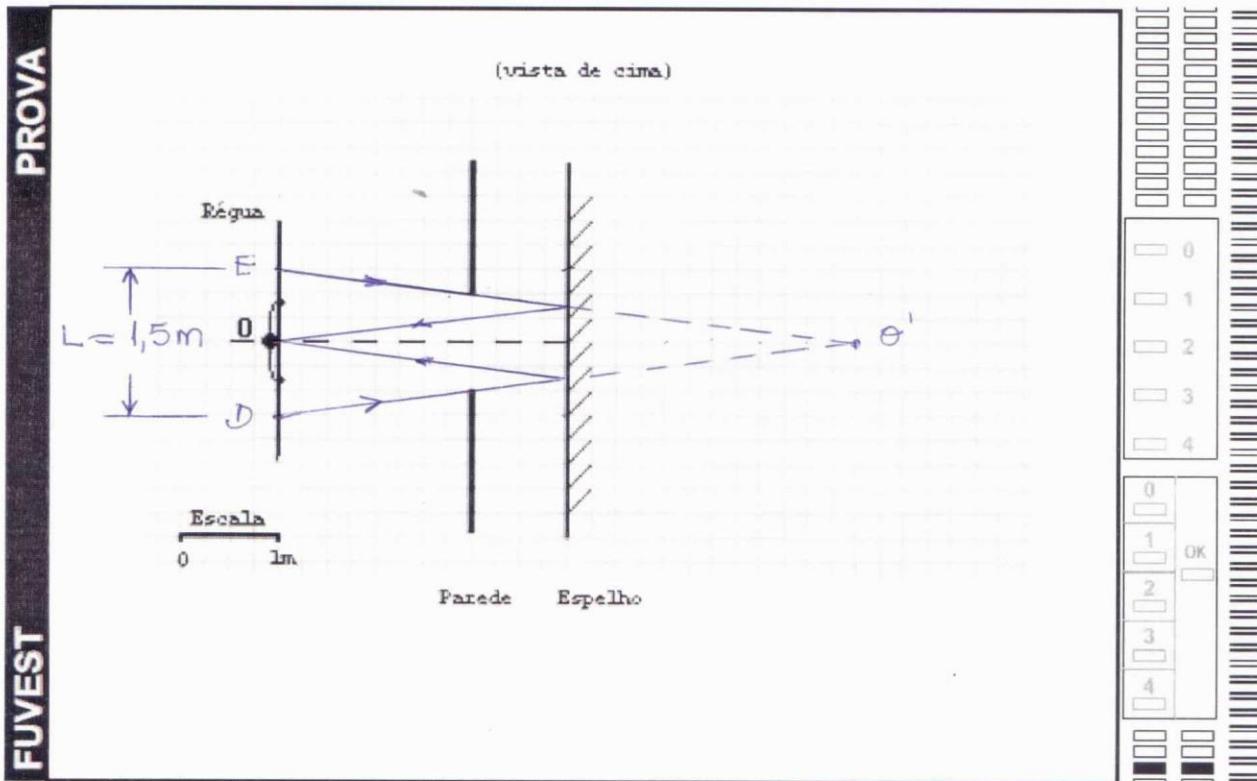


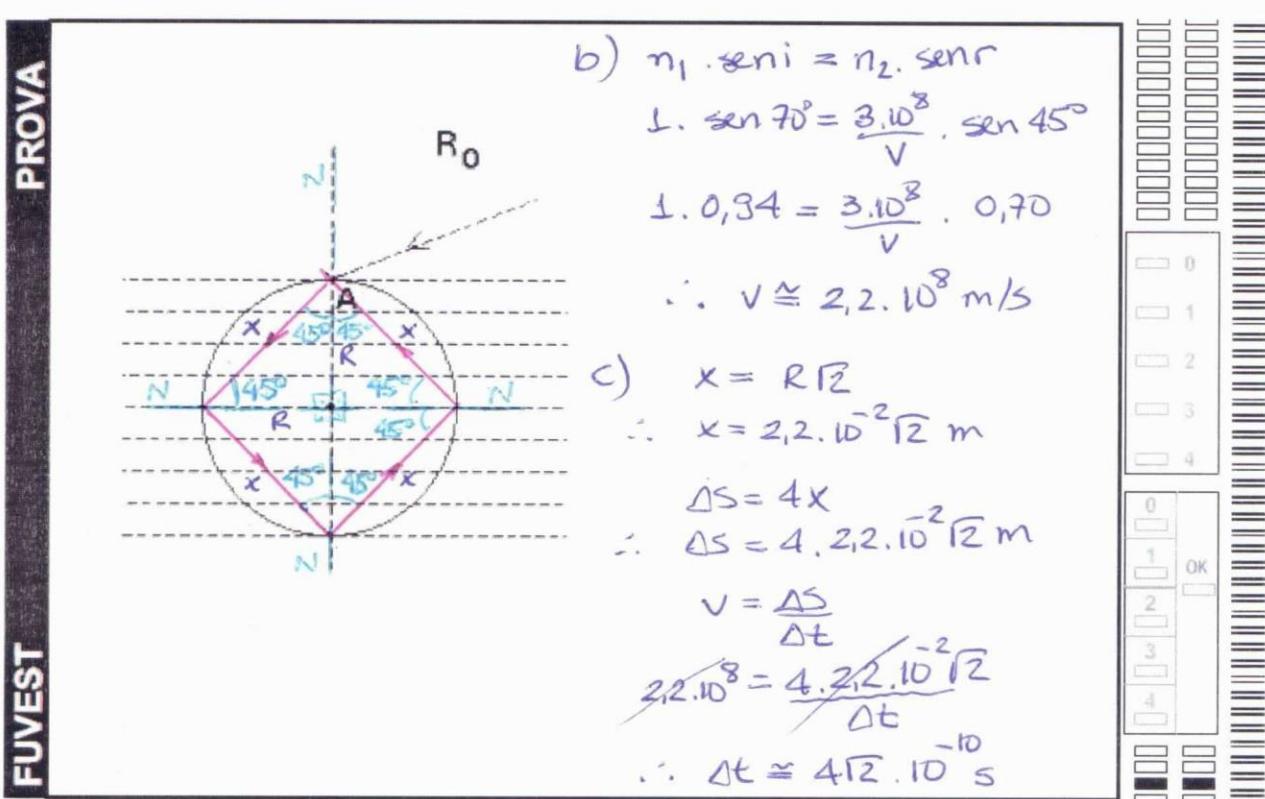
Óptica Geométrica – FUVEST 2^a fase: Caderno de respostas

Prof. Rogério Vogt

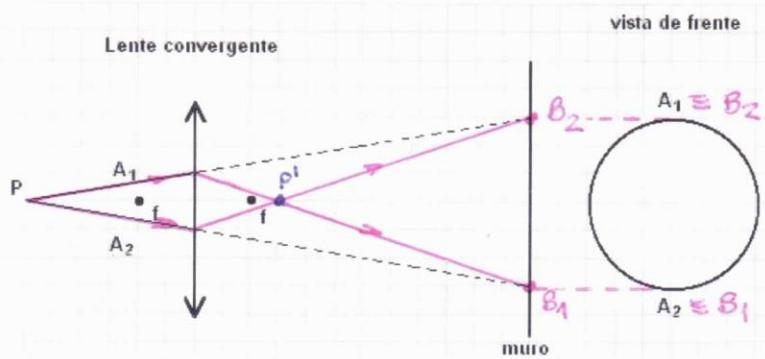
1.



2.



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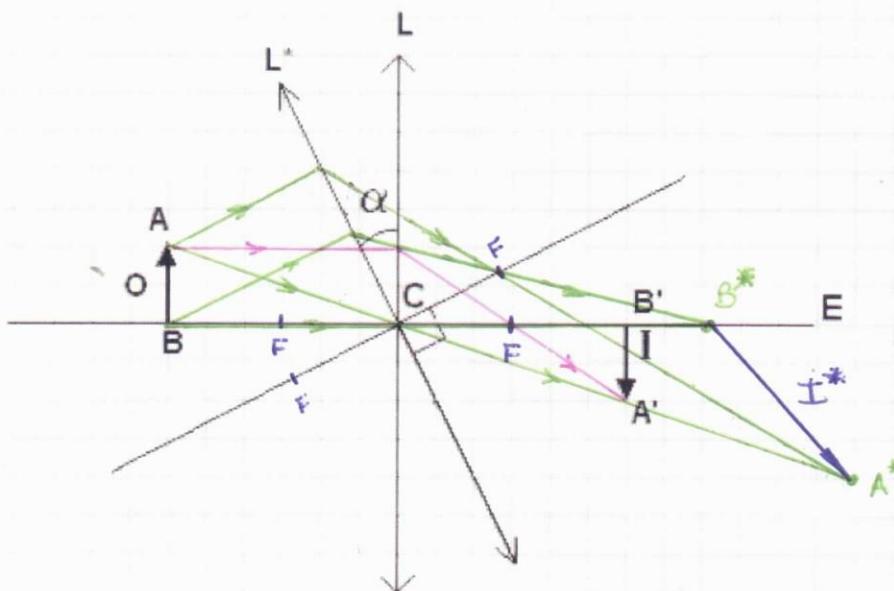


$$a) \frac{1}{f} = \frac{1}{P} + \frac{1}{P_s}$$

$$\frac{1}{2} = \frac{1}{6} + \frac{1}{p}$$

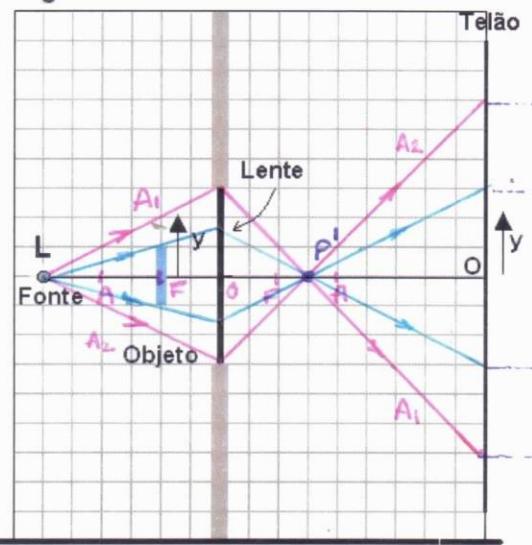
$$\therefore p' = 3 \text{ unit.}$$

b) A região iluminada é circular e tem o mesmo raio da região iluminada sem a lente.

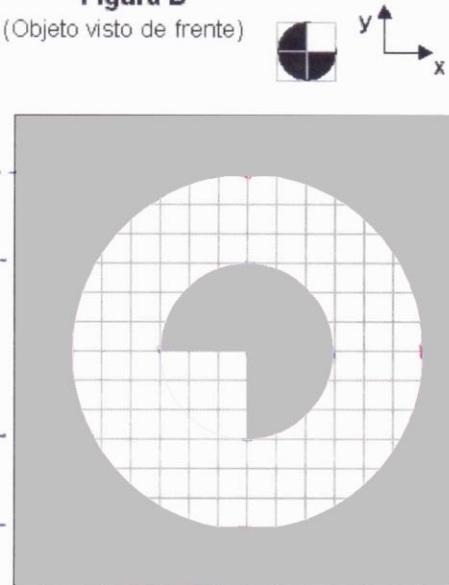


6.

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Figura A

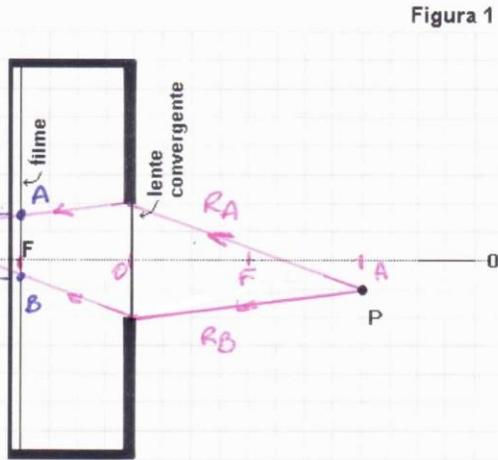
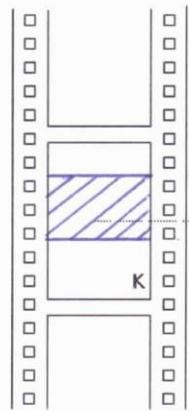
(O eixo x é perpendicular ao plano do papel, com sentido para fora dele)

Figura B
(Objeto visto de frente)**Figura C** Telão visto de frente

$$\text{a)} \frac{1}{f} = \frac{1}{P} + \frac{1}{P'} \\ \frac{1}{20} = \frac{1}{60} + \frac{1}{P'} \Rightarrow P' = 30 \text{ cm}$$

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Figura 2**Figura 1**

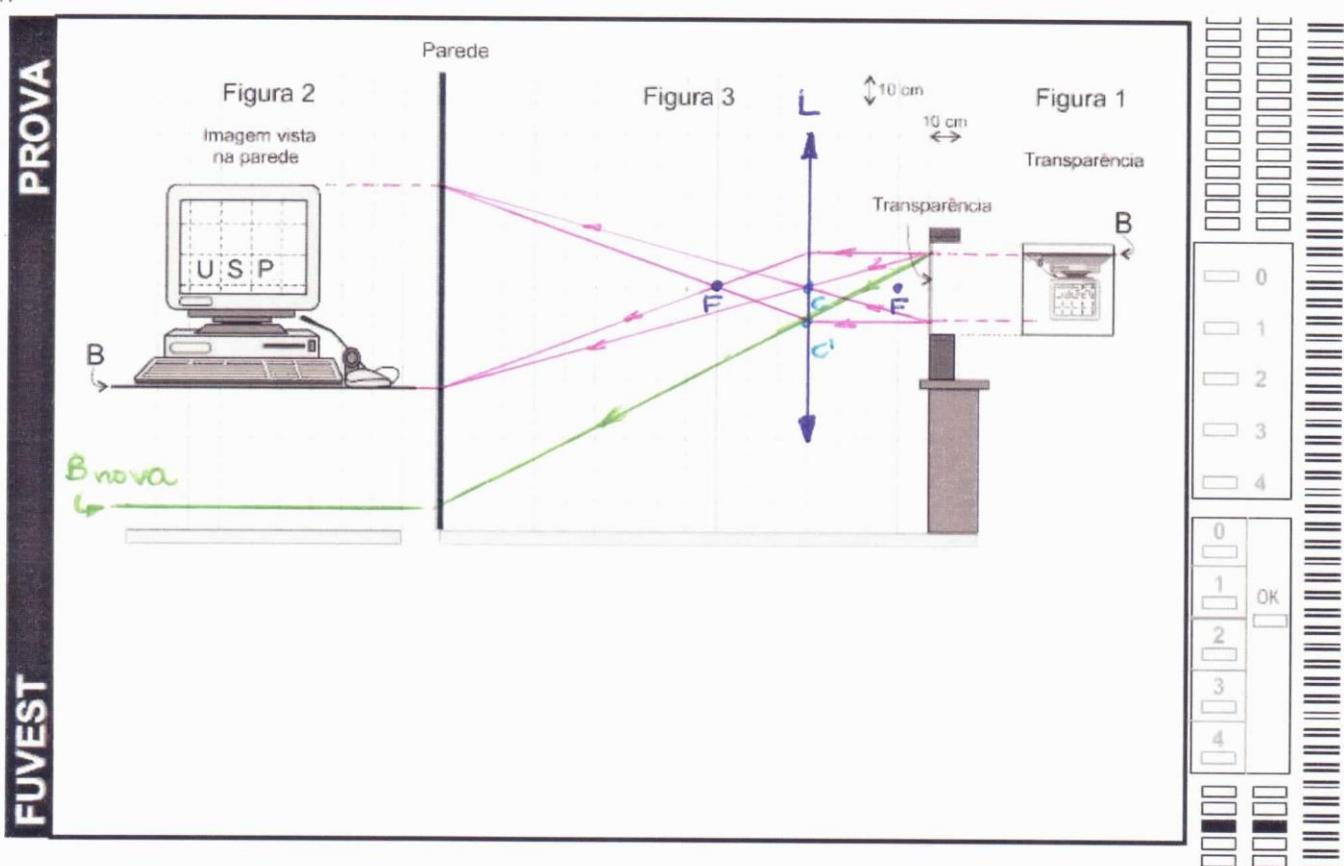
$$\text{a)} \frac{1}{f} = \frac{1}{P} + \frac{1}{P'} \\ \frac{1}{4} = \frac{1}{8} + \frac{1}{P'}$$

$$\frac{1}{4} - \frac{1}{8} = \frac{1}{P'} \\ \therefore P' = 8 \text{ quadrados}$$

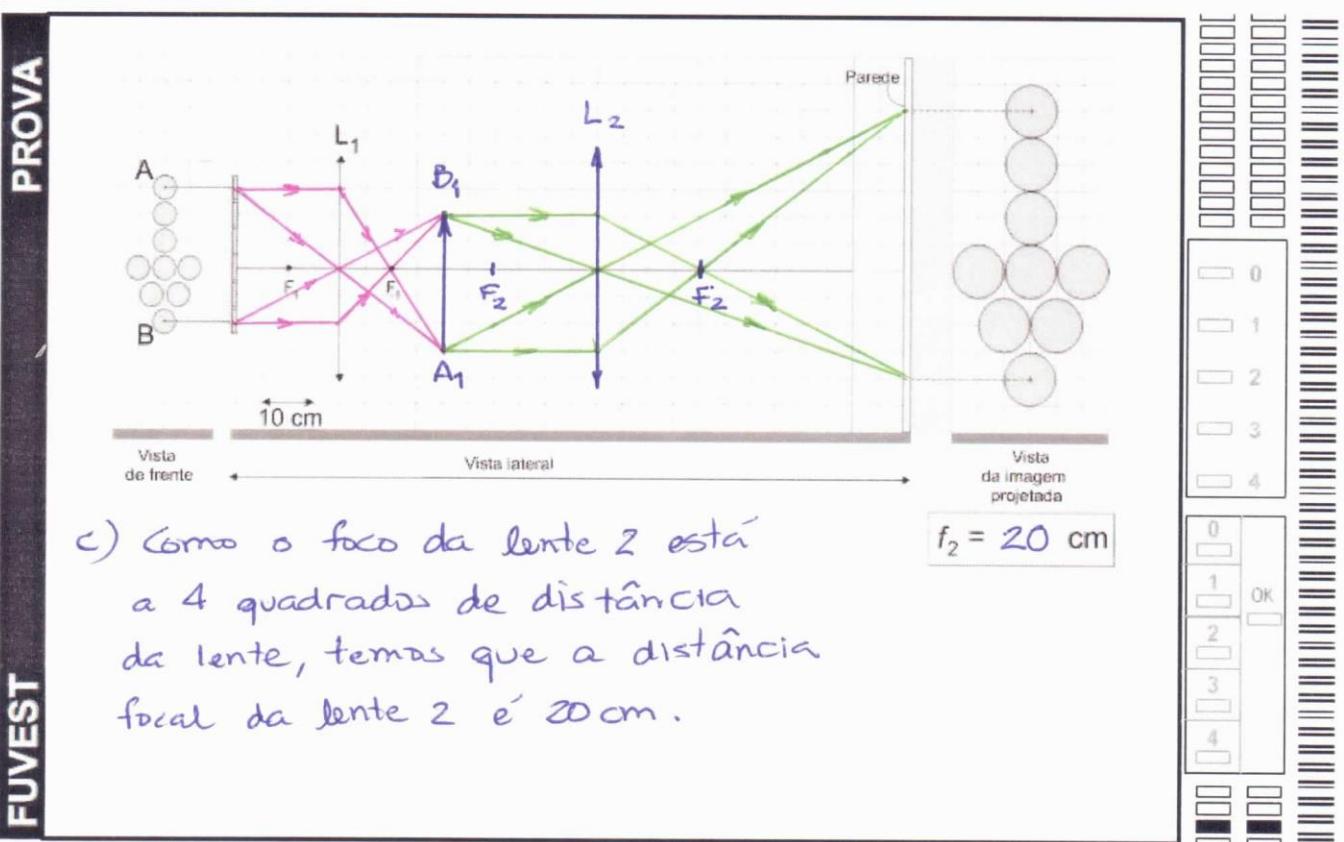
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7.



8.

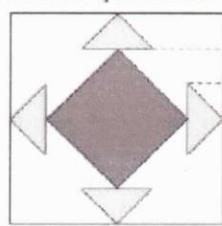


9.

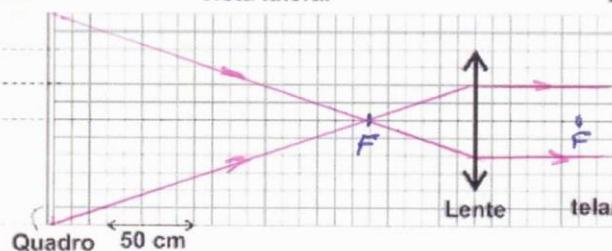
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FIGURA 1

Vista do quadro de frente



Vista lateral

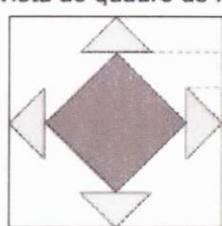


Vista do monitor de frente

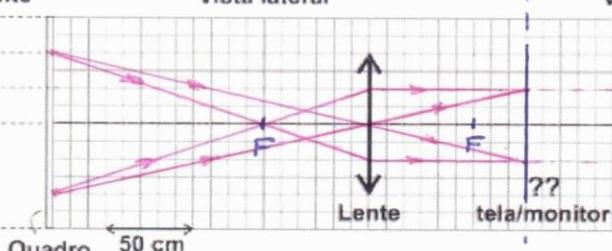


FIGURA 2

Vista do quadro de frente



Vista lateral



Vista do monitor de frente

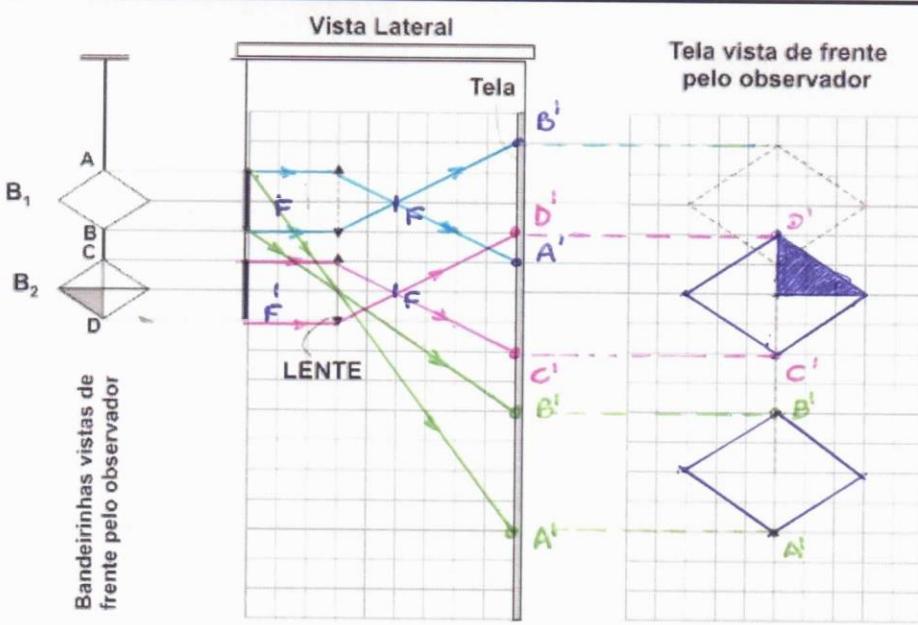


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10.

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