

:



-1 _____ :

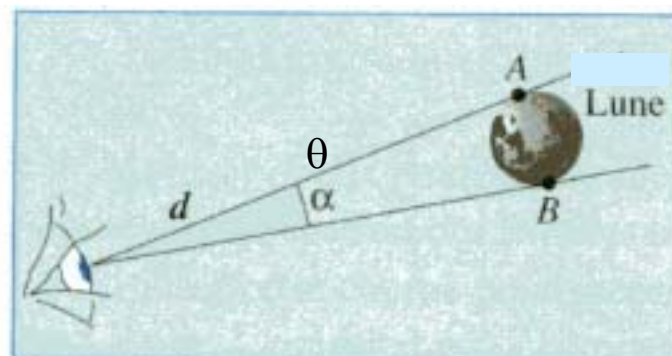
-1-1 _____ :

-



-2-1 _____ :

(θ)



25 cm

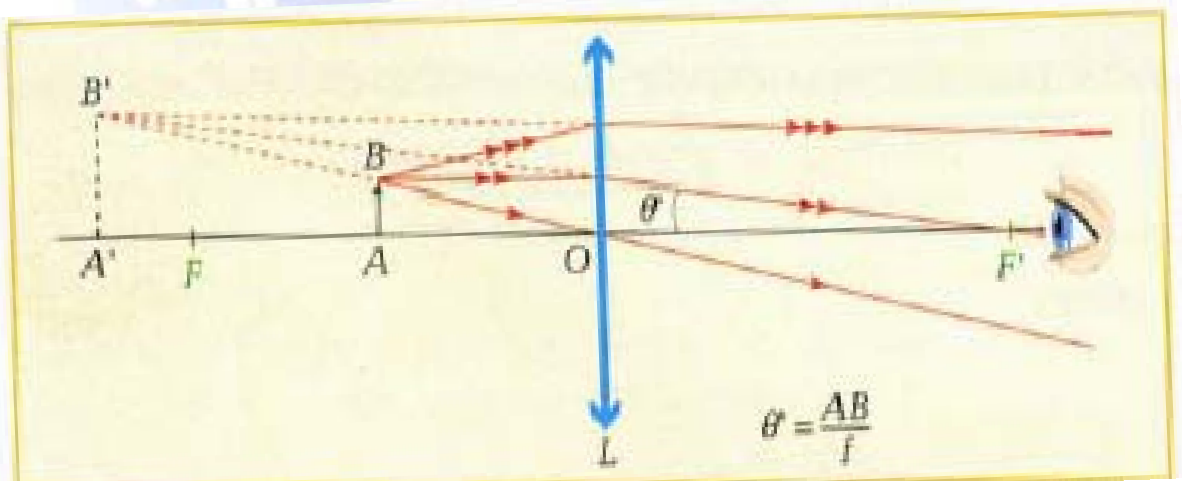
0,1 mm

: -3-1

20 cm

$L = 25$ cm.

: -4-1



$A'B'$

AB

AB

F

: -5-1

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$$G = \frac{\theta'}{\theta}$$

جميع الحقوق محفوظة ©

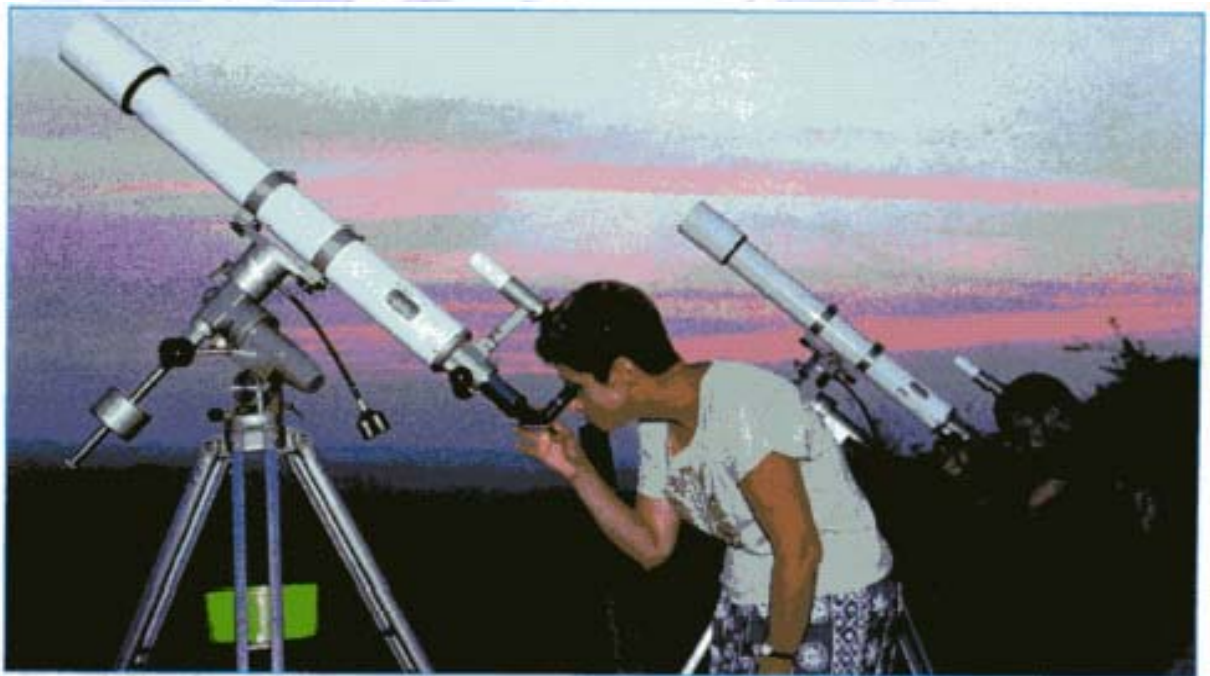
$$\begin{aligned} & : \\ & A'B' = \theta' \\ & A'B' = \theta \\ & = G \end{aligned}$$

$$\theta(\text{radian}) \approx \frac{AB}{d_m} :$$

$$\begin{aligned} & d_m = 0,25 \text{ m} \\ & : \quad \infty \quad F' \\ & \theta' = \frac{AB}{f} \Rightarrow G = \frac{\theta'}{\theta} = \frac{d_m}{f} = \frac{1}{4f} \end{aligned}$$

$$f < 0,25 \text{ m} \quad G > 1 \quad : \underline{\hspace{2cm}}$$

-1 :



(Astres)

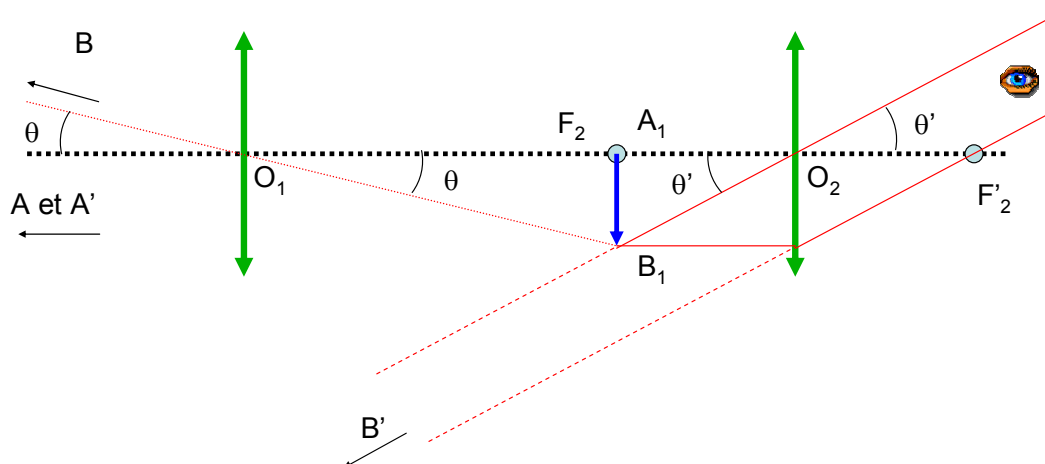
(l'objectif)

(l'oculaire)

_____ :

θ ∞ AB
A₁ B₁

إنشاء الصورة A'B' لـ AB
من خلال العدسة العينية



_____ :

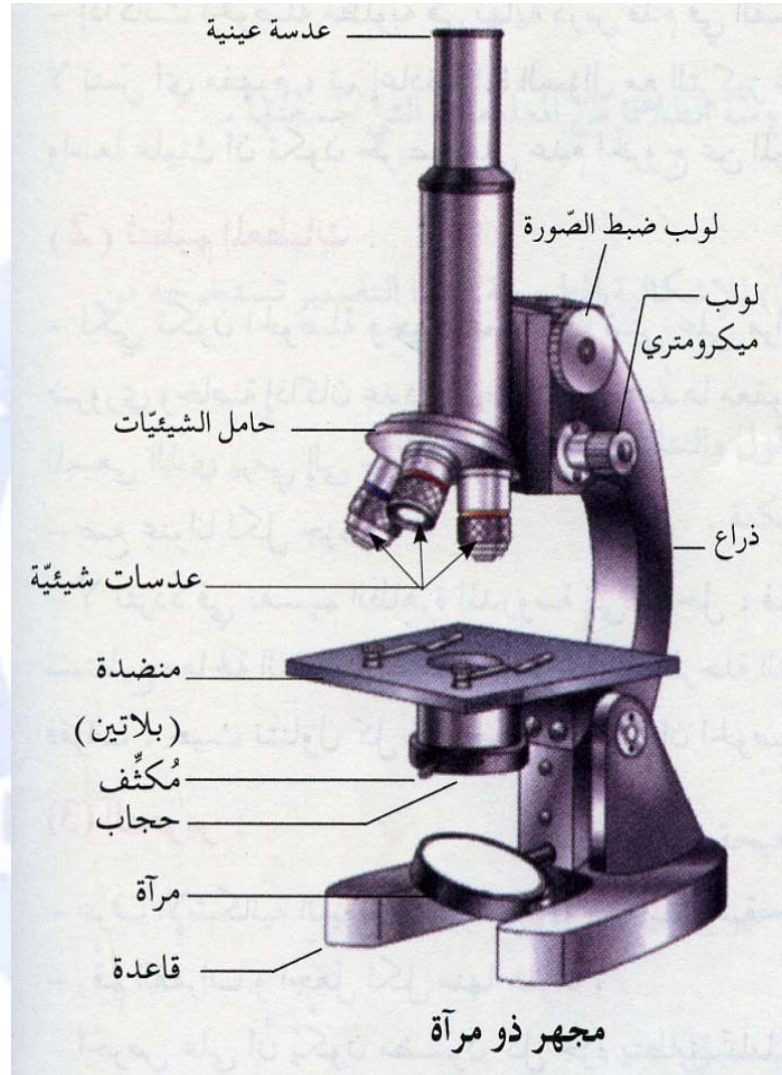
$$G = \frac{f_1}{f_2} \Leftrightarrow G = \frac{\theta'}{\theta}$$

(400 × 70) :

$$= 400 \quad *$$

$$= 70 \quad *$$

.(mm)



Zacharias Janssen Hans

(O₁)

(O₂)

-3



_____ :

- 1610

()

()

3

()

33×

_____ :

()

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جميع الحقوق محفوظة ©

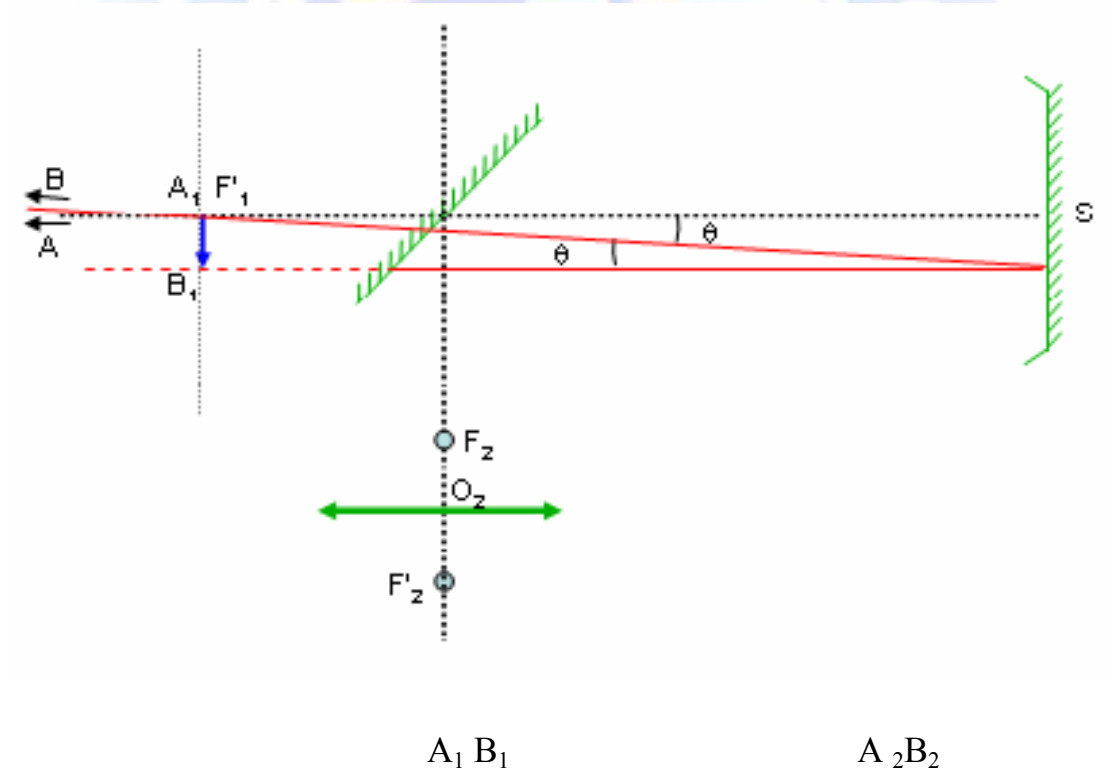
-1

-2

-3

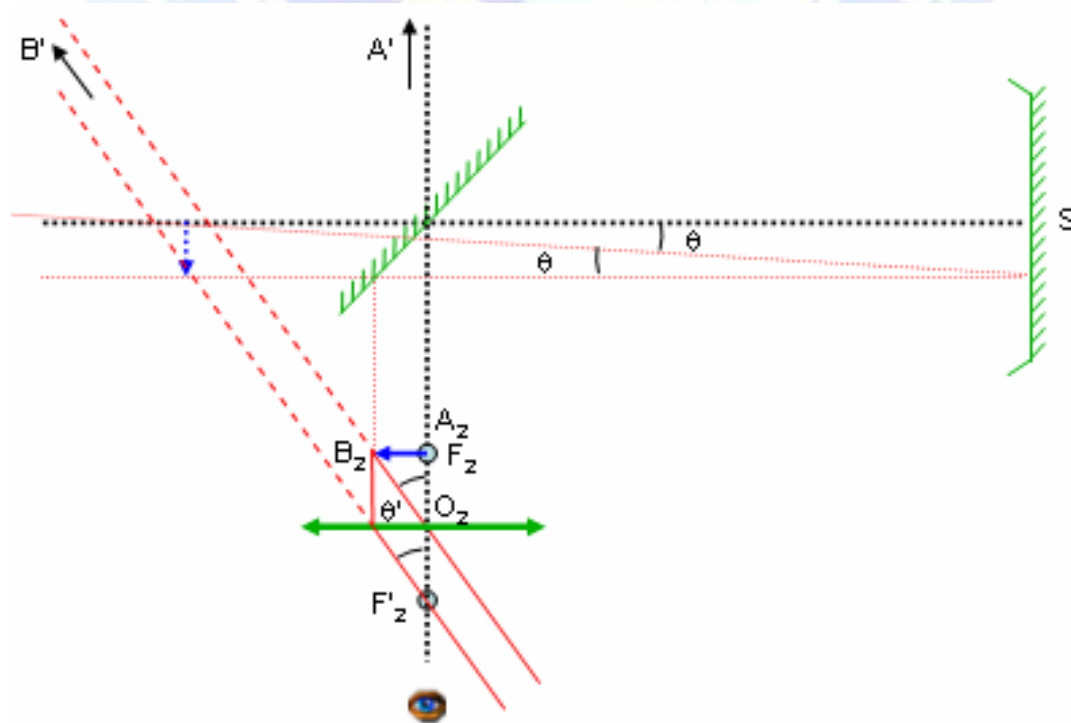


$A_1 B_1$ -1



-2

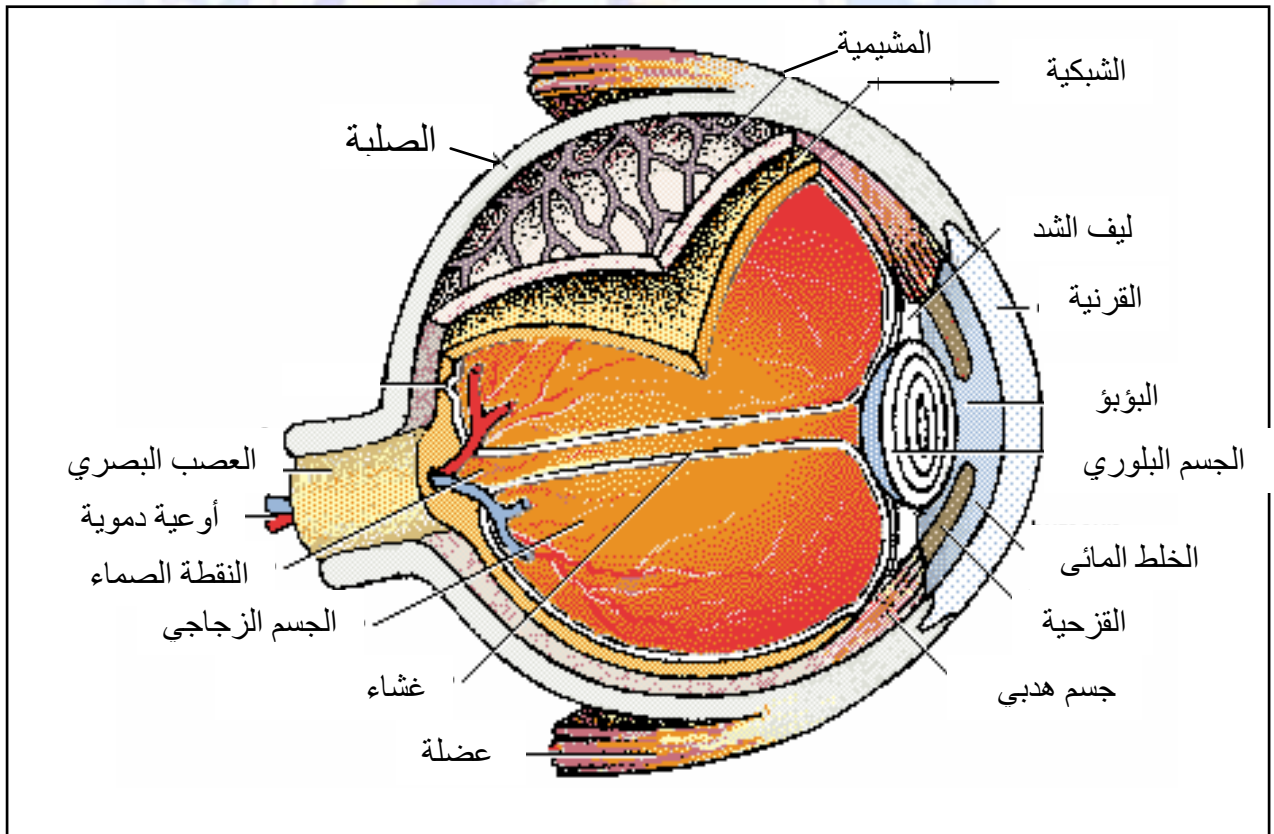
-3

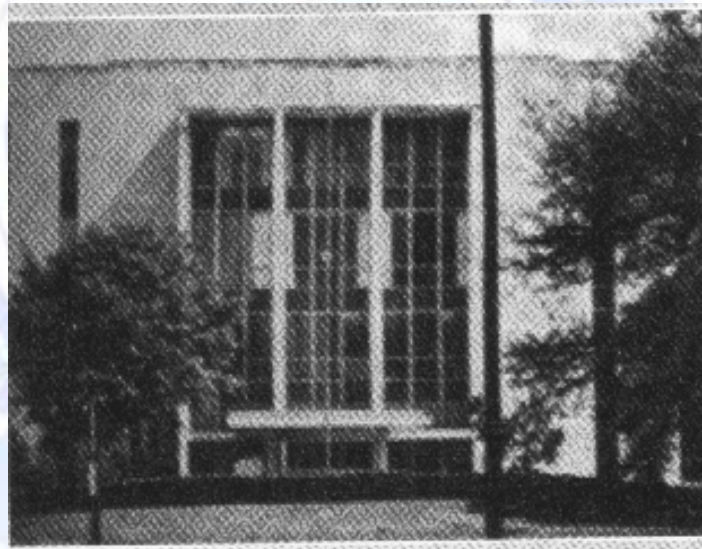
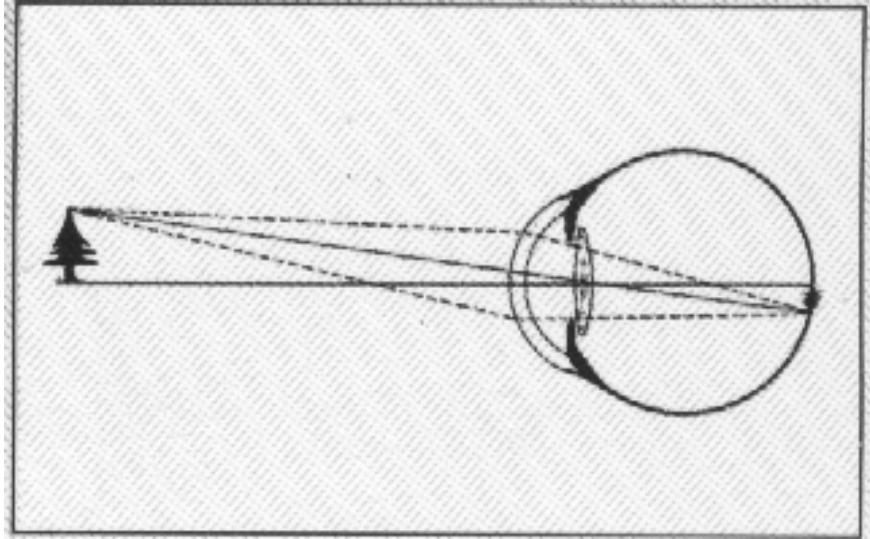


_____ :



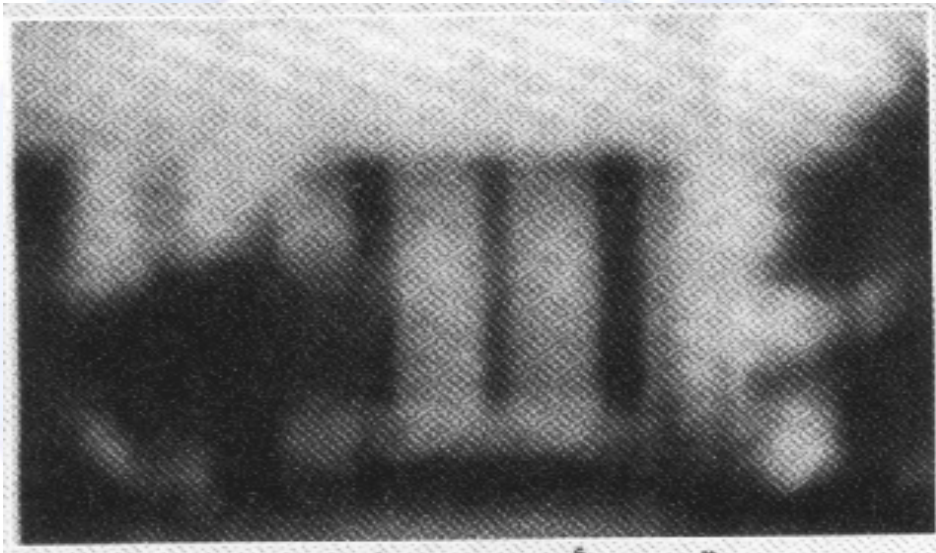
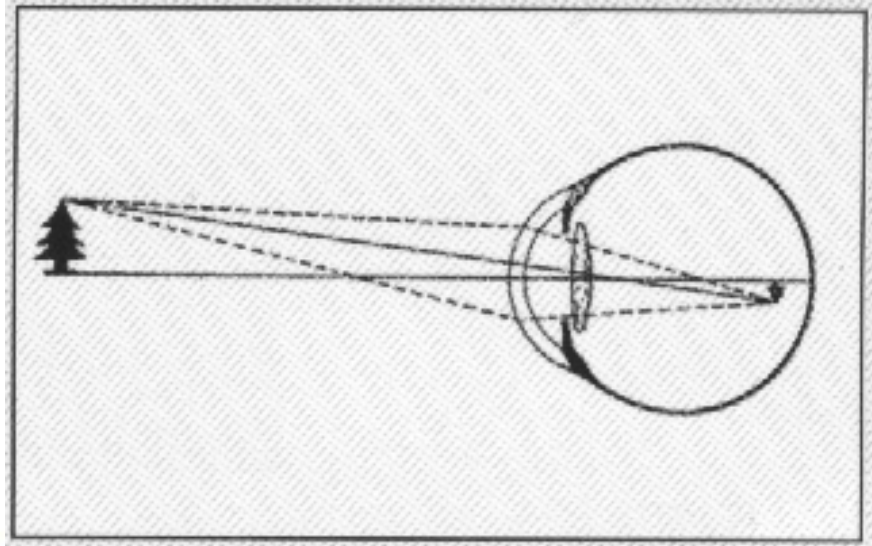
2,5 cm





رؤية طبيعية

1- _____ :



قصر أو بعد نظر

_____ :

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•

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(

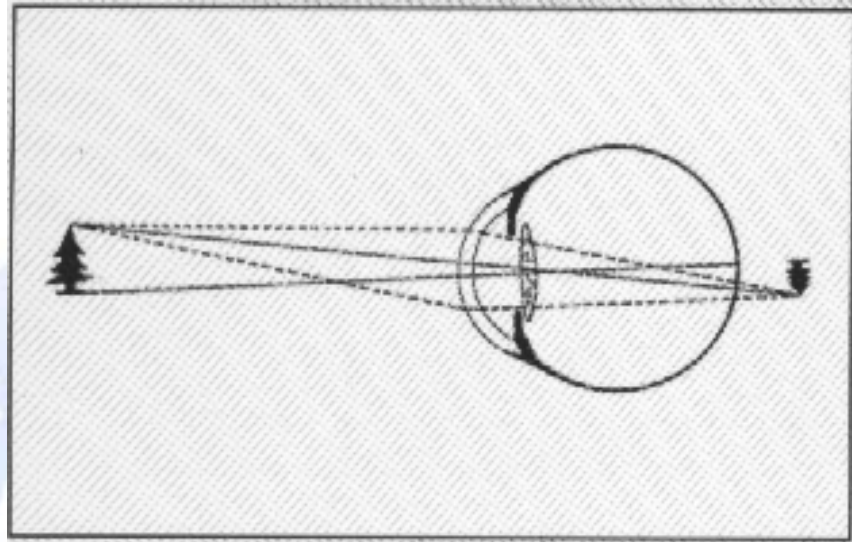
)

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-1 _____ :



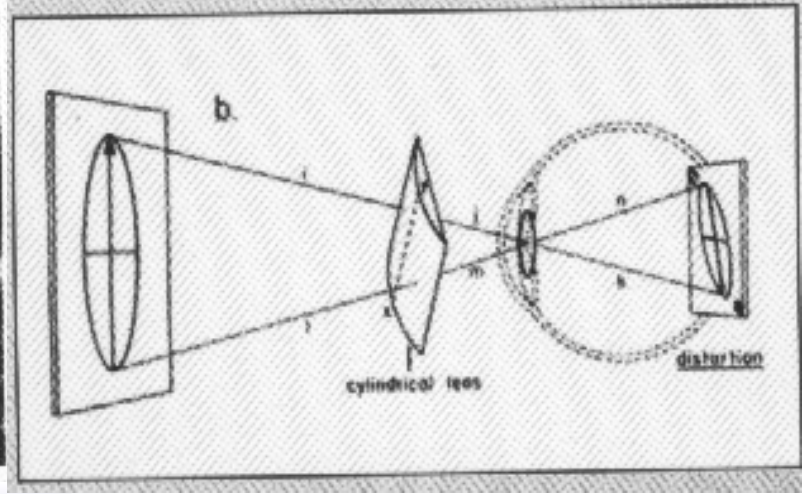
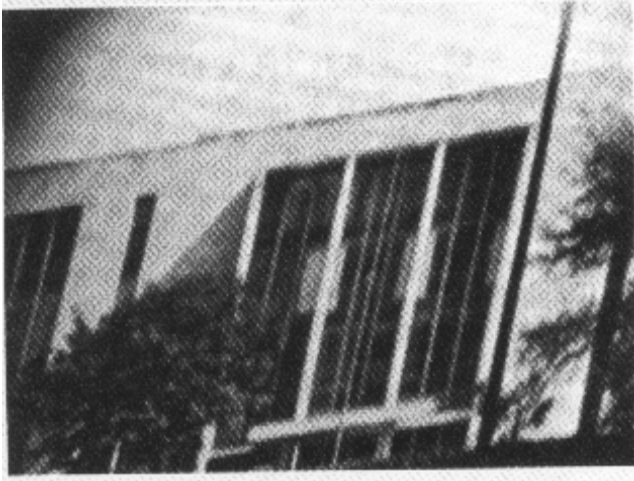
()

()

()

-3 () :

()



مريض لا بؤرية



_____:

_____:

-
-
-

4- (_____) :

()

_____:

)

.(

_____:

-
-

.()

-
-
-
-

.(LASIK)

:



عدسة للعين

1-

:

-1

-2

-3

-4

-5

-6

-7

2-

-1

4,0 mm

-2

C_2

20 dioptries

C_1

f_2

$9,3 \cdot 10^{-3} \text{ rad}$



1-

(Astres)

-1

-2

-3

-4

-5

-6

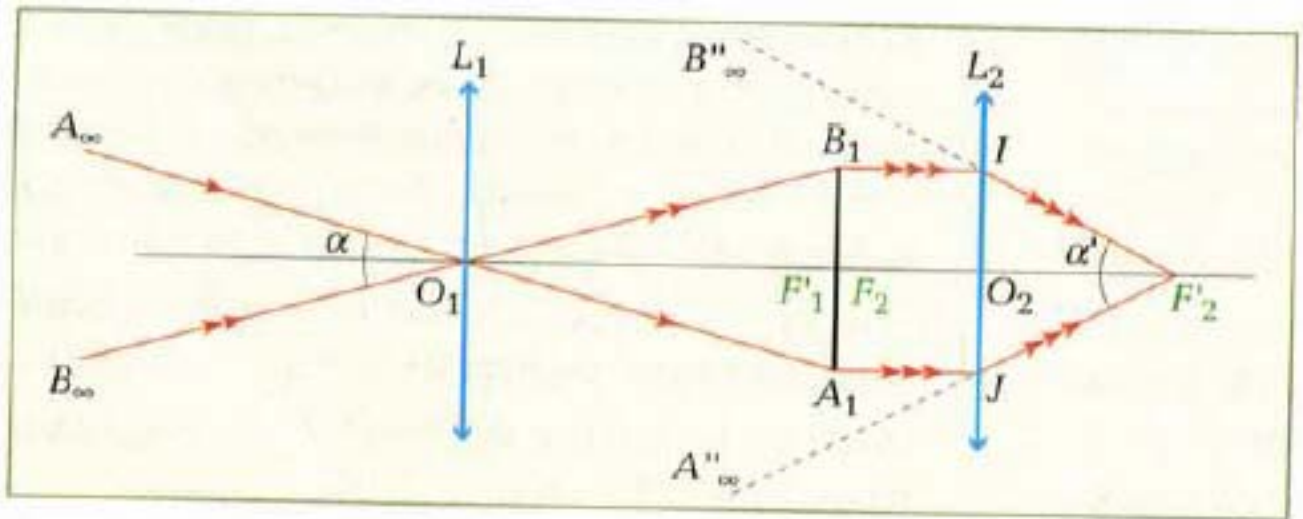
-7



2-

- 1 -

. L_1



$$A_1 B_1 = f_1 \cdot \alpha$$

$$f_1 = \frac{A_1 B_1}{\alpha} \Rightarrow f_1 = \frac{4 \cdot 10^{-3}}{9,3 \cdot 10^{-3}} = 0,43 \text{ m}$$

$$f_1 = 43 \text{ cm}$$

$$: C_1 \text{ _____ } -$$

$$C_1 = \frac{1}{f_1} \Rightarrow C_1 = \frac{1}{0,43}$$

$$C_1 = 2,3 \delta$$

$$: C_2 \text{ _____ } -2$$

$$f_2 = \frac{1}{C_2} \Rightarrow f_2 = \frac{1}{20} = 0,05 \text{ m}$$

$$f_2 = 0,05 \text{ m}$$