

Convex Mirror

उत्तर $\Rightarrow$

①	②	③
①	0	I
②	∞	F
③	X	X

virtual
अविकृत

trick

~~0~~

$\infty - f$

$f - \infty$

$C - C$

Lens मिरा =

Convex lens
उत्तल मिरा

trick

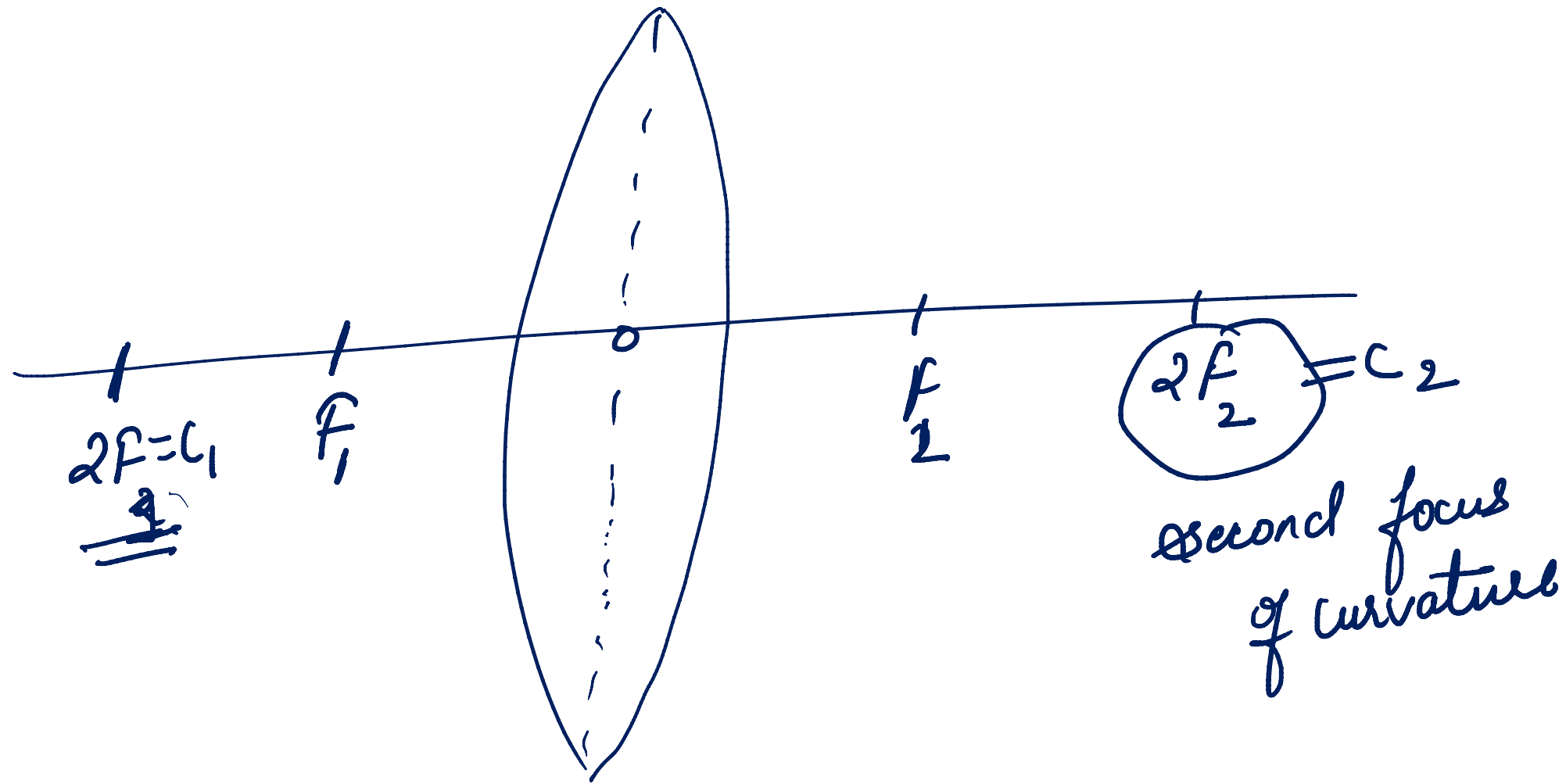
• $\infty - F$
 $F - \infty$

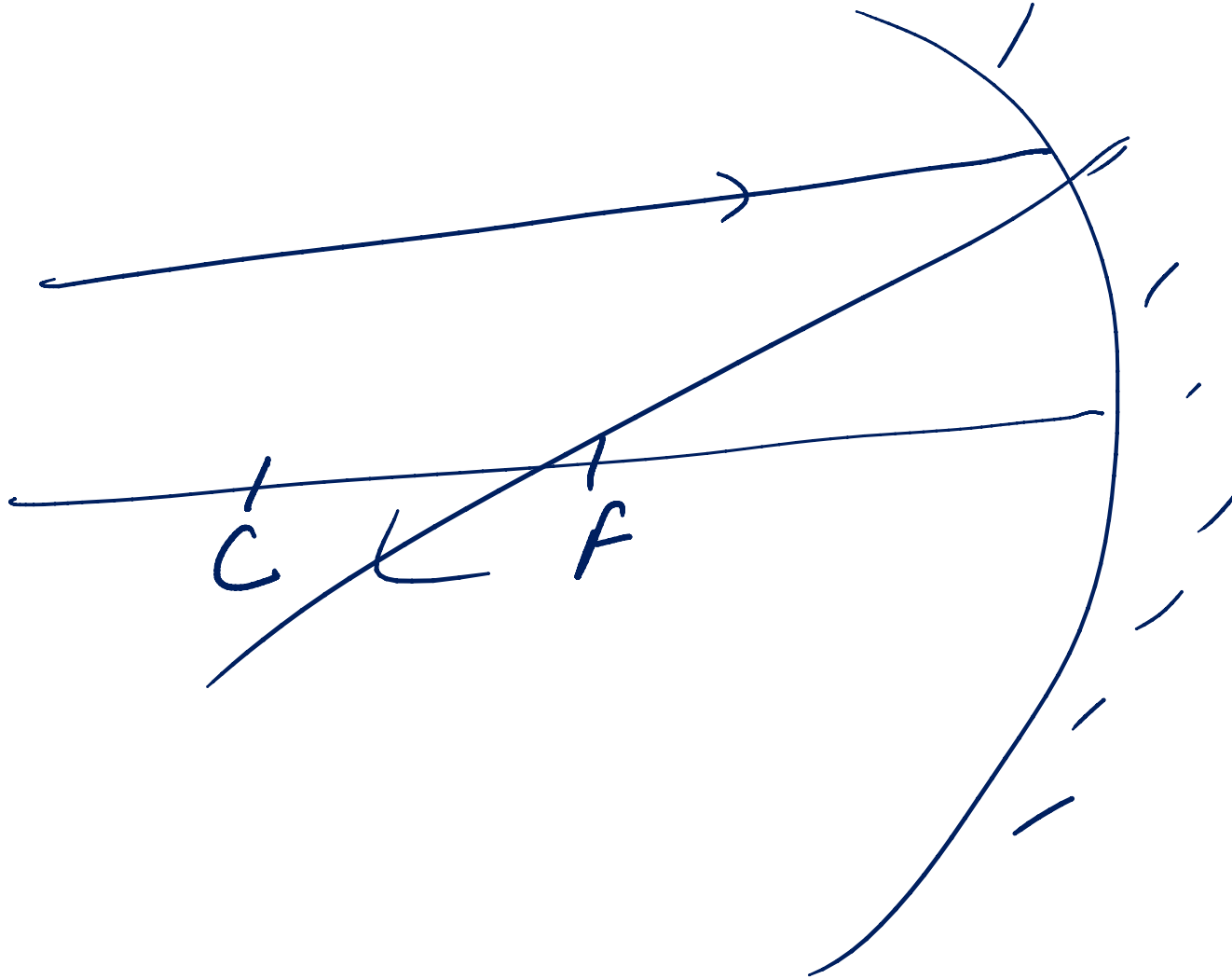
$C - C$

$2F - 2F$

① At ∞	At F
② B/w F and $2F$	B/w ∞ and $2F$
③ At $2F$	At $2F$
④ B/w ∞ and F	B/w F and $2F$
⑤ At F	At ∞
⑥	

Real
वस्तुमान





Ques In convex lens if the
~~object~~ ~~image~~ formed b/w f and $2f$ then
 the image formed
 उत्तल लेंस में अगर वस्तु f और $2f$ के बीच हो
 तो प्रतिमा कहाँ बनेगा ?

$\Rightarrow \infty$ और $2f$
 and

Concave lens

उत्तल लेंस

Object वस्तु

Image

$\infty - f$
 $f - \infty$
 $2f - 2f$

virtual
आभासी

① At ∞

At f

②

lens and mirror



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An Initiative by अमर उजाला

lens और गगुन formula
लेंस और गगुन के सूत्र

Mirror गगुन $\Leftarrow \frac{1}{F} = \frac{1}{v} + \frac{1}{u}$

F = Focus

v = image
छवि

u = object
वस्तु

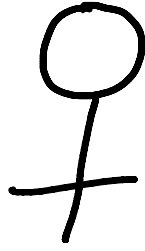
lens $\Leftarrow \frac{1}{F} = \frac{1}{v} - \frac{1}{u}$
(minus)

Focus $\Rightarrow \frac{r}{2}$ — radius

(ex) $= r = 10\text{cm}$

$f = \frac{10}{2} = 5\text{cm}$

Que



at $\theta =$ angle कोण
no of image
प्रतिबिम्ब संख्या

$$\text{formula} = \frac{360}{\theta}$$

if $\theta = 60^\circ$ then no of image
 प्रतिबिम्बों की संख्या = ?

संख्या जो even or odd

$$\Rightarrow \frac{360}{\theta} = \frac{360}{60} \Rightarrow \underline{6} - \text{even}$$

$$\text{even} = \frac{360}{\theta} - 1$$

$$\text{odd} = \frac{360}{\theta}$$

$$\text{formula} \Rightarrow \frac{360}{\theta} - 1 \Rightarrow \frac{360^\circ}{60^\circ} - 1$$

$$\Rightarrow 6 - 1 = \underline{5} \text{ Ans} - \text{no of image}$$

$$\theta = 120^\circ$$

$$\frac{360}{120} \Rightarrow \frac{360}{120} = 3$$

$$\text{formula} \Rightarrow \frac{360}{\theta} \Rightarrow \frac{360}{120} \Rightarrow \text{no of image} = 3$$

11th
CDS
AFCA
60%
Grand
date
Chapter

CDS
AFCA
AC
graduation
DIP

12th
CHSLIMITS
DIP

Trick

no of image $\Rightarrow$ 2 — even

$$\Rightarrow 2 - 1 = 1$$

no of image = 5 — odd

$$\text{Ans} = 5$$

Repeated ques

$$\theta = 60^\circ$$

Ans $\Rightarrow S^-$

Sign convention
Final
Third year

CDS combined defence services
Eng. MATH 4's
Eng. Gase OIA = boy/girl

AFCAT

air force

ground duty
grad = 60%

fly in officer
12th PCM
gra = 60%

AC = 4 years

