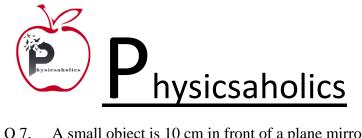




DPP – 1 (Geometrical Optics & Dispersion)

Video Solution on Website:-	https://physicsaholics.com/home/courseDetails/31
Video Solution on YouTube:-	https://youtu.be/h9hYVt6eW7c
Written Solution on YouTube:-	https://physicsaholics.com/note/notesDetalis/58
Q 1. When reflection from (a) In same plane (c) Parallel	a plane mirror incident ray, normal & reflected ray all are (b) mutuallu perpendicular (d) None of the above
Q 2. A rays is incident at a normal and reflected (a) 38° (b) 52°	
(a) Erect, real and of(b) Erect, virtual and(c) Inverted, real and(d) Inverted, virtual a	of equal size of equal size nd of equal size
(b) If the final rays ar (c) The image of a vir	ons: s are converging, we have a real object. e converging, we have a real image. tual object is called a virtual image. tual, the corresponding object is called a virtual object.
 (a) All the reflected ratio (b) Only the reflected backward. (c) Only the reflected produced backward. 	at is placed in front of a plane mirror: ays meet at a point when produced backward. rays close to the normal meet at a point when produced rays making a small angle with the mirror, meet at a point when colours make different images.
(a) It is erect(b) It is virtual(c) It is diminished	ng is not the case with image formed by a plane mirror: distance as the object





Q 7.	 A small object is 10 cm in front of a plane mirror. A man stands 30 cm from the mirror, behind the object and looks at the object's image. He should focus his eyes to see the image at a distance: (a) 25 cm (b) 35 cm (c) 45 cm (d) 40 cm 			
Q 8.		t at a speed of 5 cm/s.	from a plane mirror. Then after 5 s the dis (c) 50 cm	
Q 9.	A plane mirror is apr	proaching you at 10 cm	n per second. You can	see your image in it
Q 7.	1 11	our image approach yo	1	see your image in it.
	(a) 10 cm/s	(b) 5 cm/s	(c) 20 cm/s	(d) 15 cm/s
Q 10.	-	ards a plane mirror at a pect to the car will be- (b) 60 m/s	a speed of 30 m/s. The (c) 15 m/s	(d) 45 m/s
Q 11.	Calculate the velocit away from the plane (a) 6 m/s	y of image with respec mirror with 6 m/s: (b) -6 m/s	t to observer if an obser	erver is walking (d) 3m/s
Q 12.	A light ray is inciden	t on a plane mirror at	angle 30 ⁰ . If mirror is	rotated by 10° then
	reflected ray is rotate (a) 30° (b) 10	d by angle	(d) 60°	
Q 13. A light ray is incident on a horizontal plane mirror at an angle of 30° with horizontal. At what angle with horizontal must a plane mirror be placed in its path so that it becomes vertically upwards after reflection?				
	(a) 30° (b) 10		(d) 60 ⁰	
Answer Key				

Q.1 a	Q.2 a	Q.3 b	Q.4 b	Q.5 a
Q.6 c	Q.7 d	Q.8 c	Q.9 c	Q.10 b
Q.11 c	Q.12 c	Q.13 a		1

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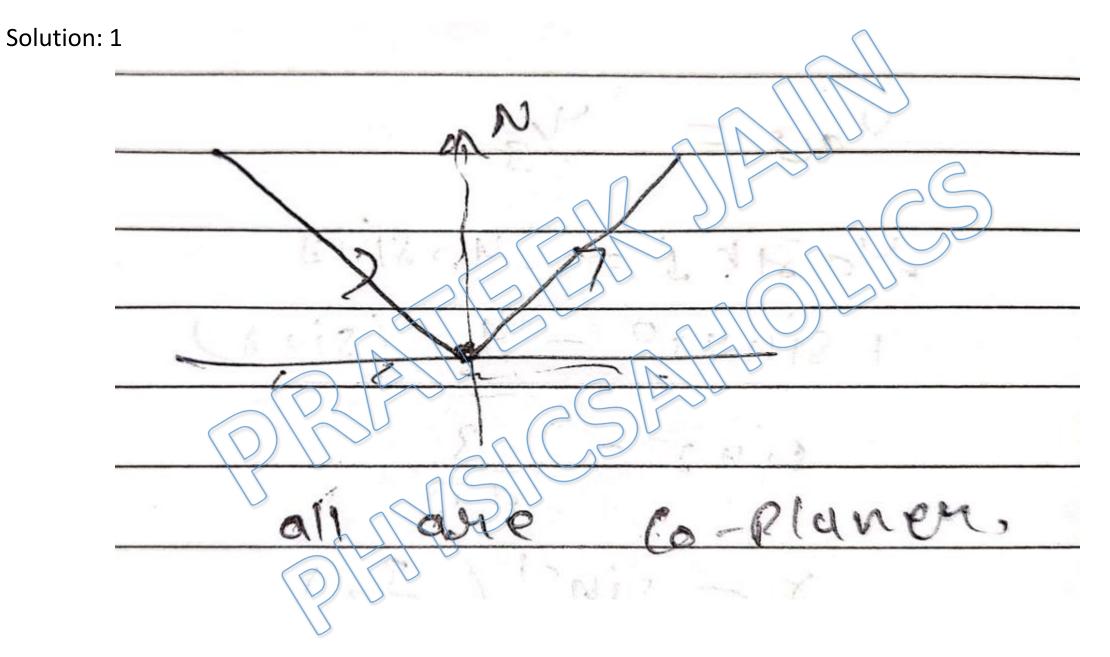
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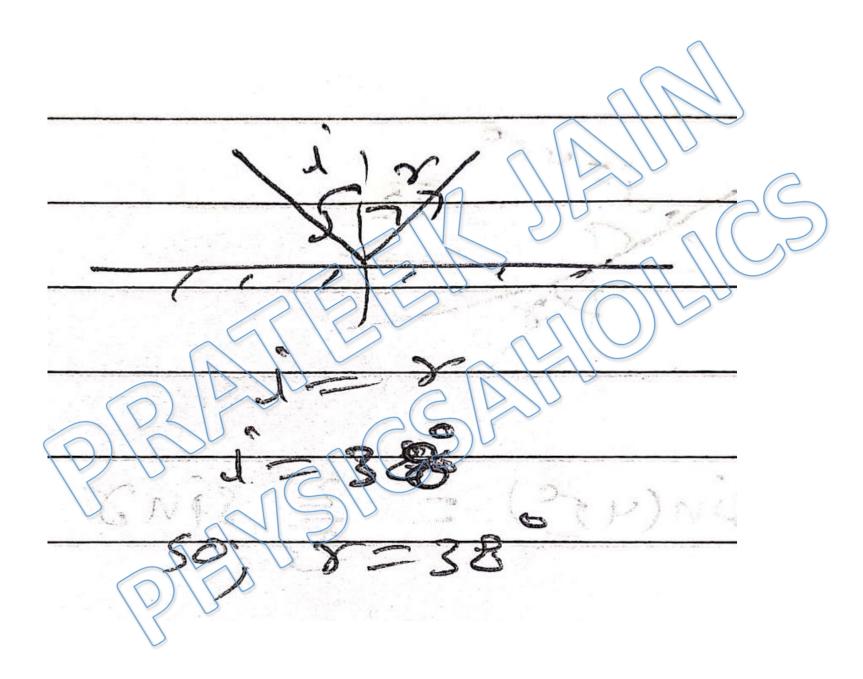
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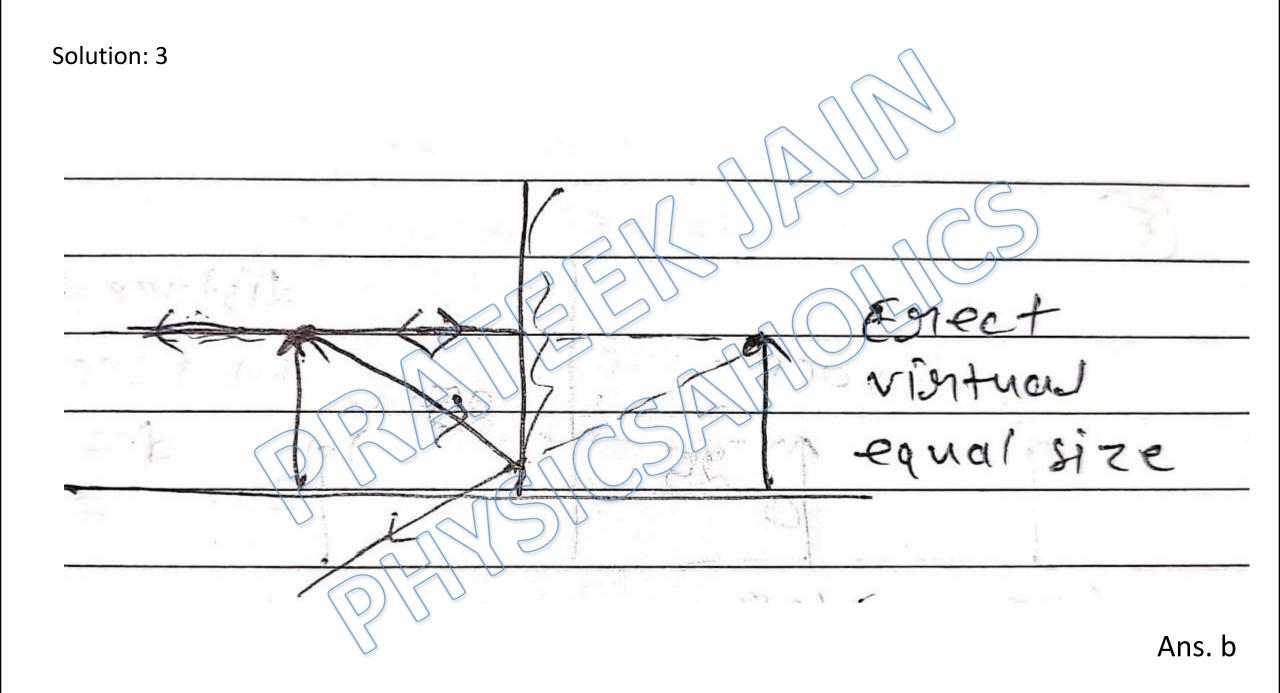
Written Solution

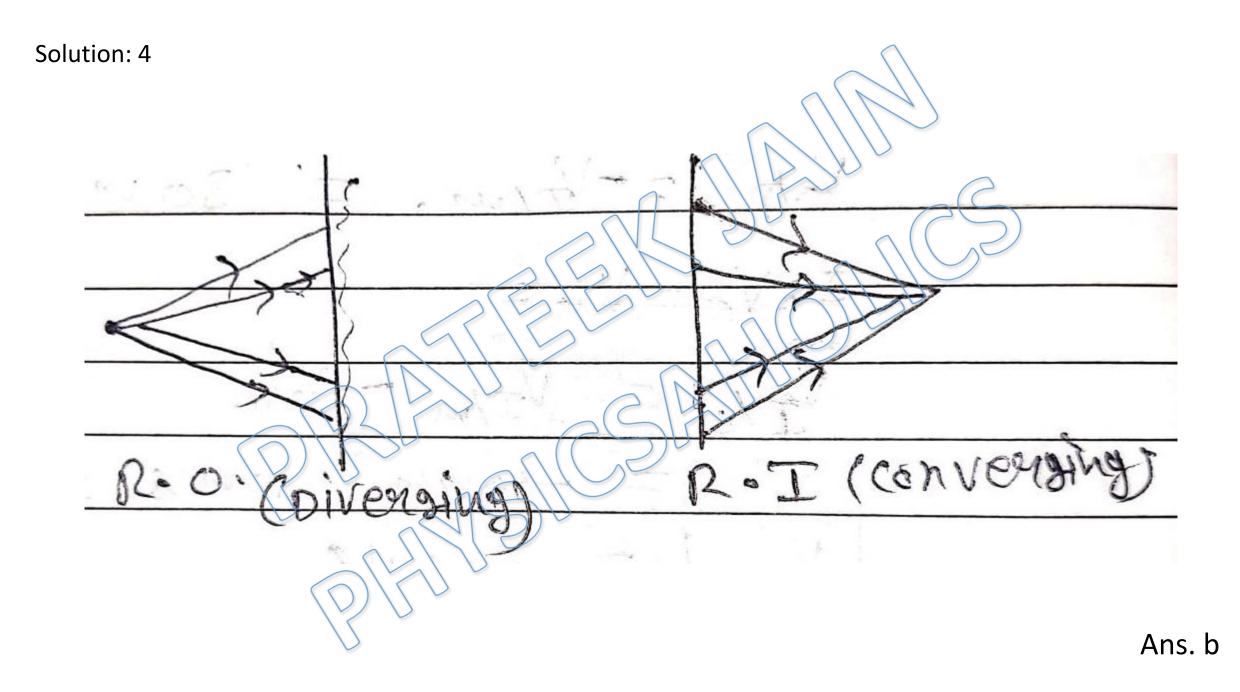
DPP-1 Plane Mirror, Real, Virtual, Rotation of Image, Velocity of Image By Physicsaholics Team

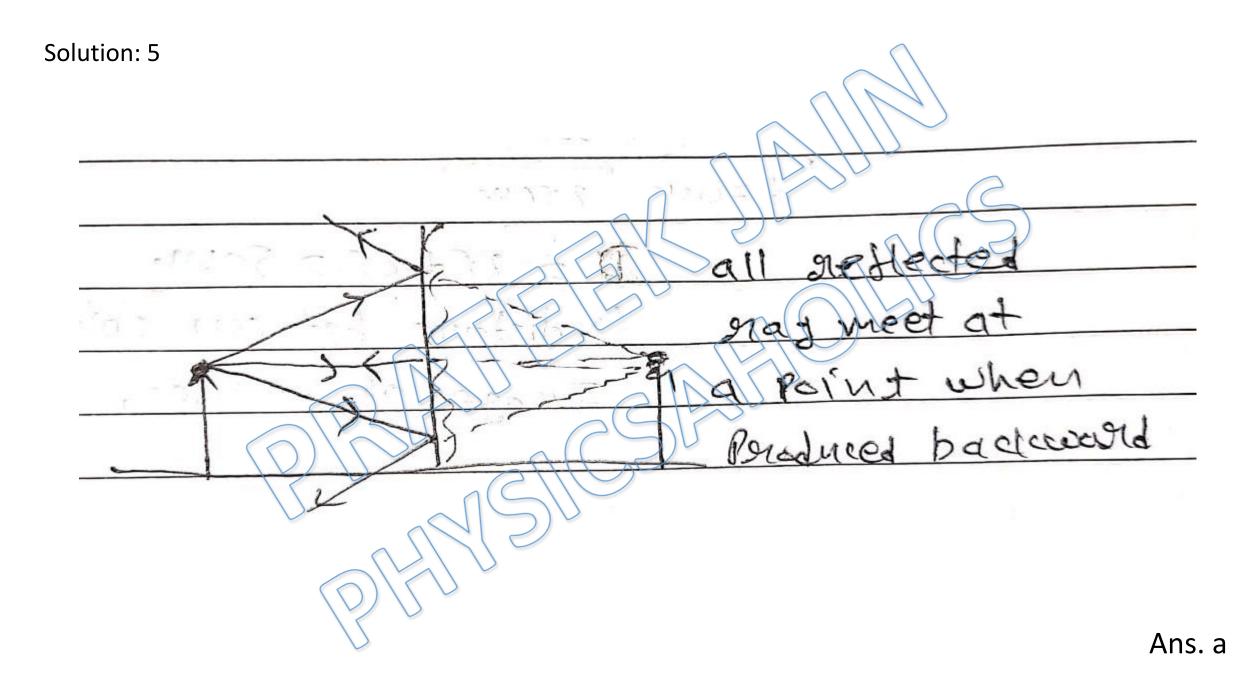


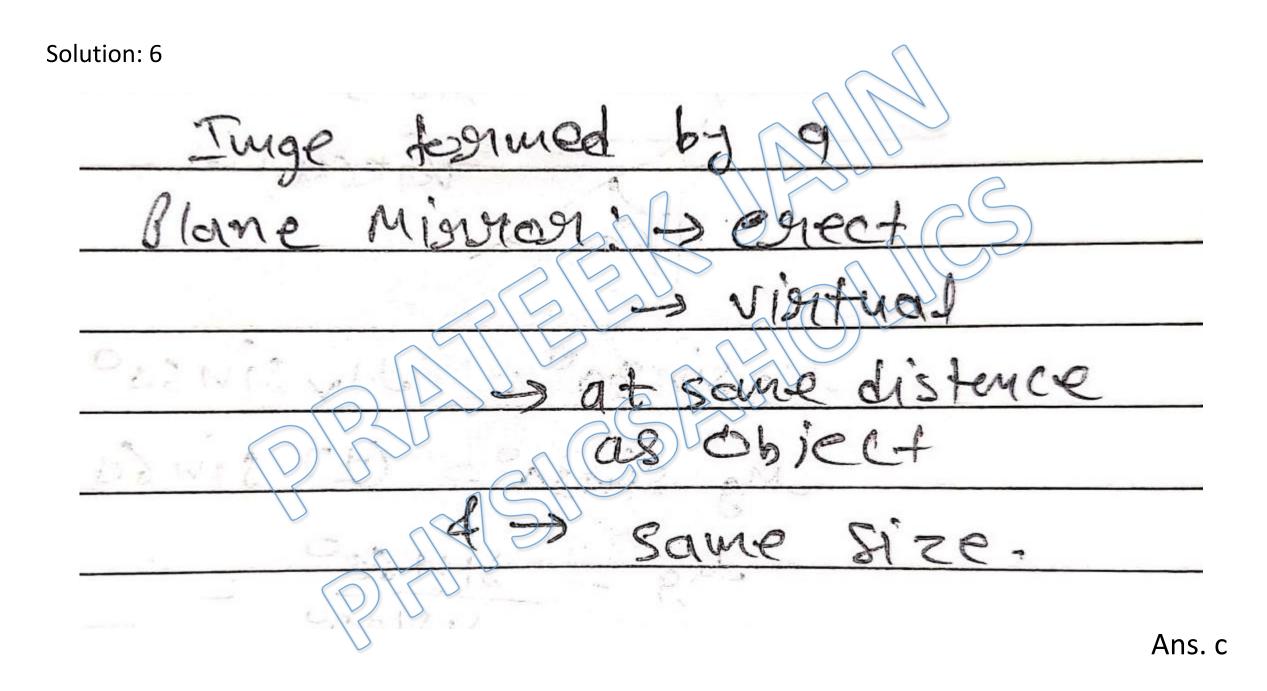
Solution: 2



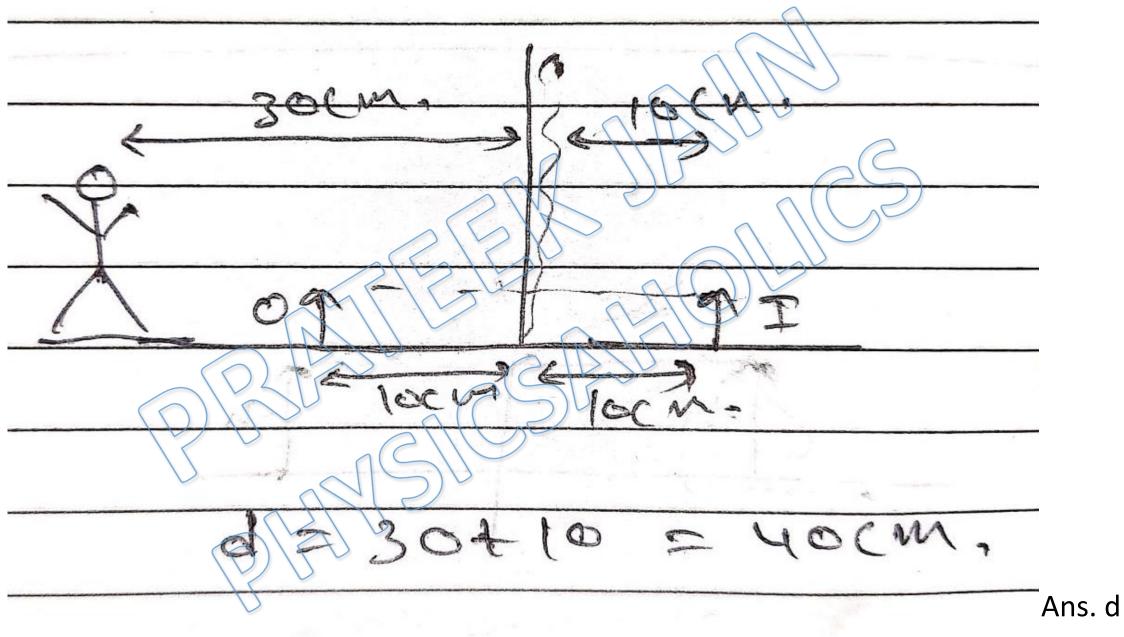


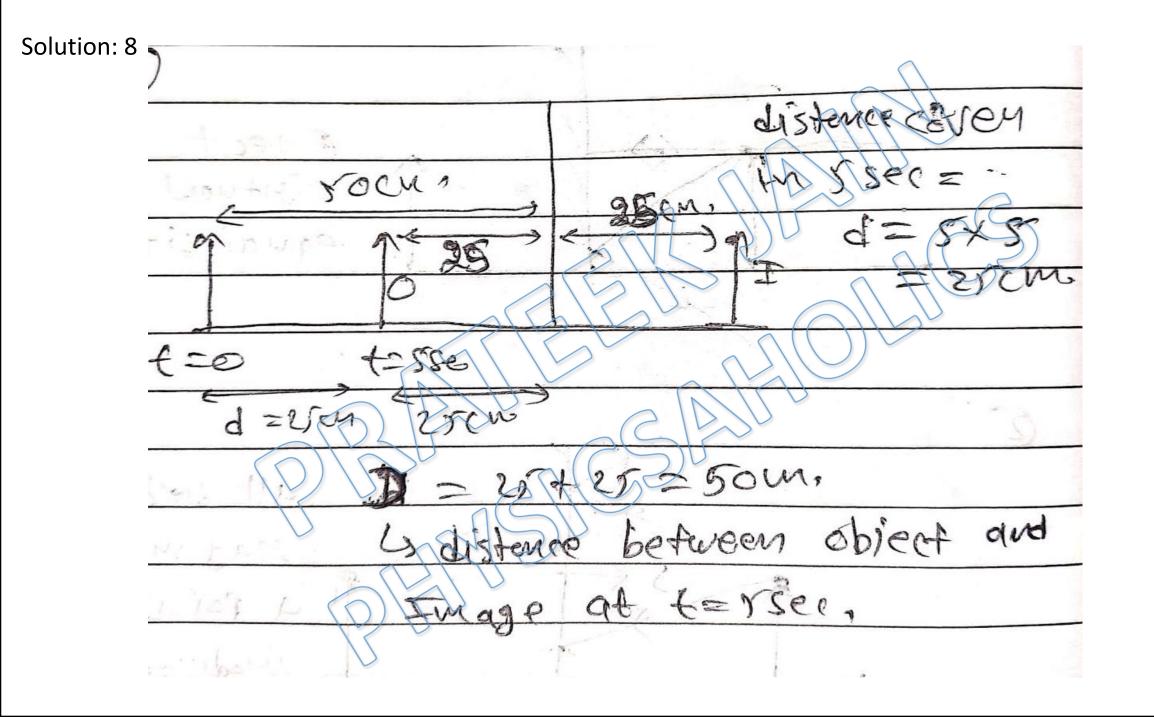






Solution: 7



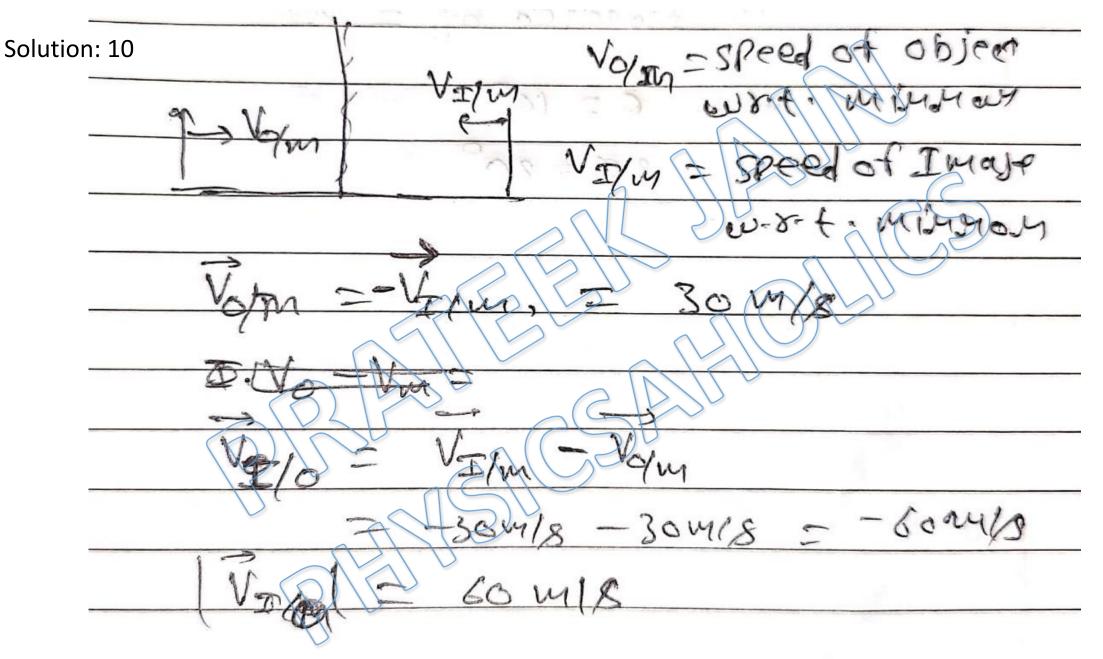


Ans. c

VAVE 10 CM/Se. 2 VMO I/o 5 20 cm/8 = d -2001 20 1 = 24 TYYO moves of they when Core 3 (221) Innerge maves :. when mirror moves with speed V the Image moves with speed 2.V

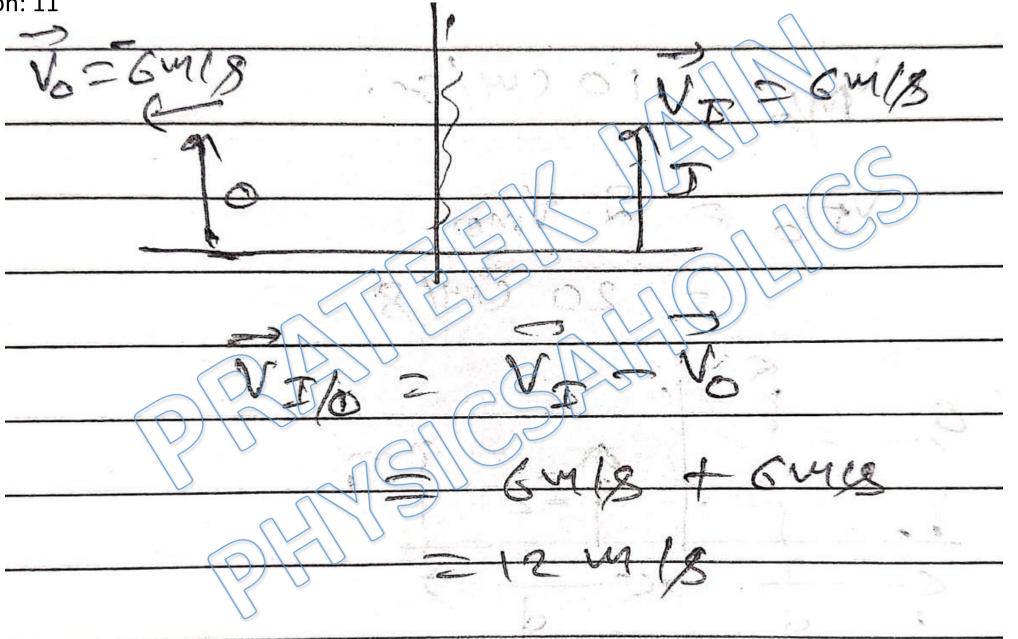
Solution: 9

Ans. c

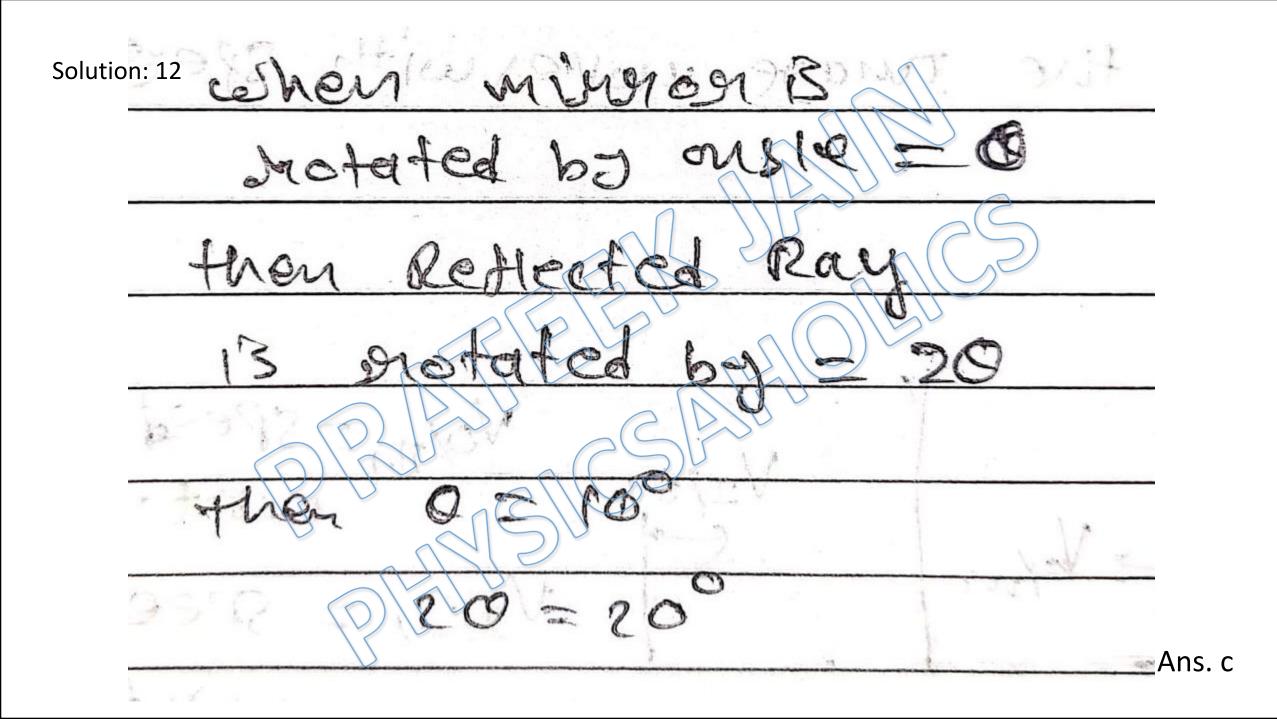


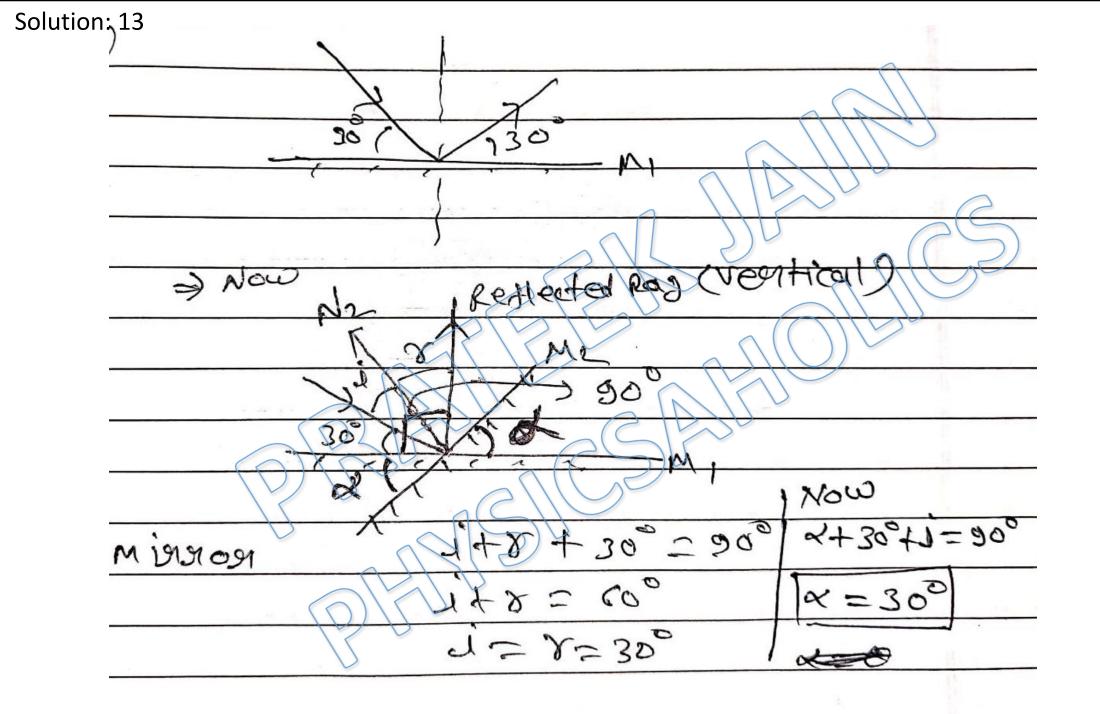
Ans. b

Solution: 11



Ans. c





Ans. a

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