

becomes horizontal after reflection.



Q.8 A ray of light is incident on a circle $x^2 + y^2 = R^2$ polished from inside as shown in the figure. Find the co-ordinate of x and y of the point at which the incident ray should fall such that the reflected ray deviated by 60° after reflection.



Q.9 A ray of light is incident on a parabola $y = 4x^2$ polished from inside as shown in the figure. Find the co-ordinates x and y of the point at which the incident ray should fall such that the reflected ray becomes horizontal after reflection.



Q.10 When a student looks into a plane mirror, she sees a virtual image of herself. However, when she looks into an unpolished glass surface, the image is not seen clearly. Which light phenomenon is responsible for the image not being seen clearly?

(A)Regular reflection (B)Irregular reflection (C)Polarization (D)Resonance

ANSWER KEY

Q.	1	2	3	4	5	6	7	8	9	10
Sol.	(B)	(A)	(A)	(C)	(A)	(B)	(B)	(C)	(A)	(B)