

Q1. An object is placed between two plane mirrors inclined at angle θ with each other. What is the total number of images formed?

Answer:

If θ is a submultiple of 180° , then the number of images formed is

$$n = \frac{360}{\theta} - 1$$

If θ is not a submultiple of 180° , then the number of images formed is the integer next higher than $(\frac{360}{\theta} - 1)$