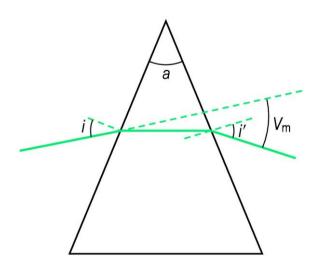
## Answer on Question #38972, Physics, Optics

A light ray of angle of incidence 40 degree emerged from the prism in minimum deviation position. Then what is the angle of incidence on the second surface?

- (1) 90 degree
- (2) 0 degree
- (3) 40 degree
- (4) 0 degree

## **Solution:**



Prism (a, prism angle; i, angle of incidence = i', angle of emergence;  $V_m$ , angle of minimum deviation)

For minimum deviation position the incident ray and emergent rays are symmetrical with respect to the refracting surface.

Thereby, i=i'.

Answer. (3) 40 degree.