

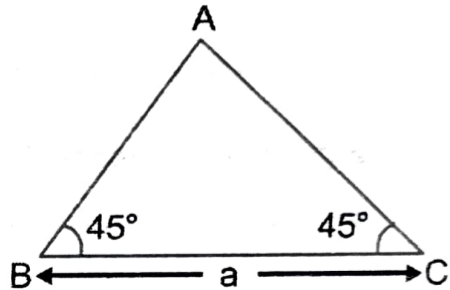
What is the moment of inertia of a triangular plate ABC of mass M and side $BC = 'a'$ about an axis passing through A and perpendicular to the plane of the plate ?

(A) $\frac{Ma^2}{6}$

(B) $\frac{3Ma^2}{4}$

(C) $\frac{Ma^2}{24}$

(D) $\frac{Ma^2}{12}$



(A)

Triangle is a part of square of side a and A is at centre

$$\therefore I = \frac{Ma^2}{6}$$