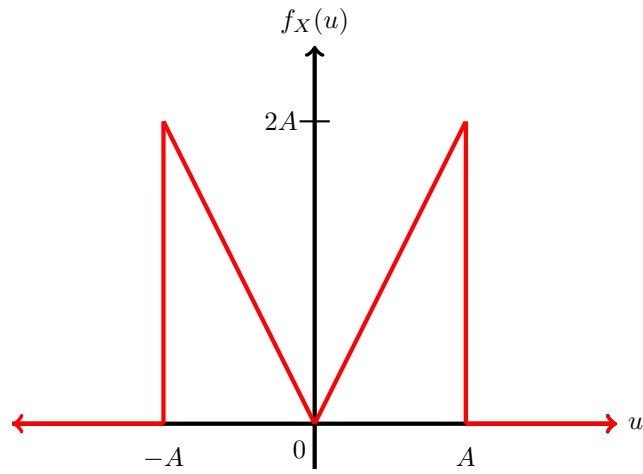


What is the variance of a random variable whose probability density function (pdf) is shown below?



- (a)  $1/4$
- (b)  $1/2$
- (c)  $1$
- (d)  $0$
- (e)  $1/8$
- (f)  $\sqrt{2}/2$
- (g)  $2i$
- (h)  $4$
- (i)  $\sqrt{2}$
- (j)  $1 - \frac{\sqrt{3}}{2}$
- (k)  $\frac{1}{2} - \frac{\sqrt{3}}{4}$
- (l)  $2/3$
- (m) None of these.