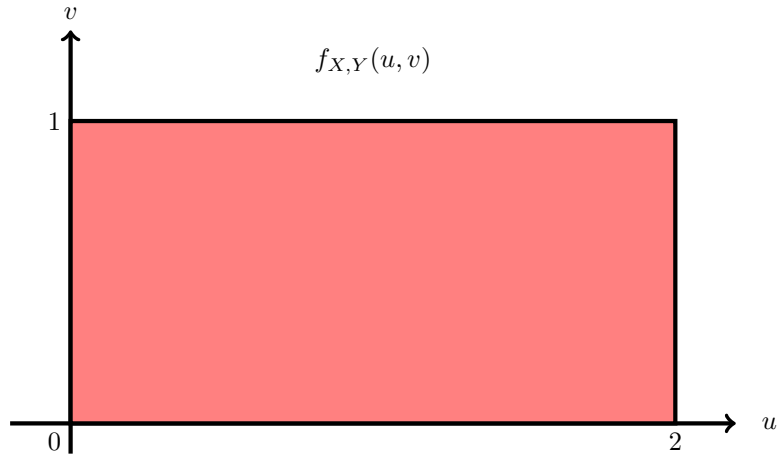


Suppose random variables X and Y have a joint probability density function $f_{X,Y}(u, v) = uv$ in the red region, and zero elsewhere. What value of A would make the probability that Y is less than A equal to $1/2$?



- (a) $\sqrt{2}/2$
- (b) $1/16$
- (c) $1/2$
- (d) $1/4$
- (e) $1/8$
- (f) $3/8$
- (g) $5/8$
- (h) $1/\sqrt{8}$
- (i) $\sqrt{2}$
- (j) $1/3$
- (k) $2/3$
- (l) None of these.