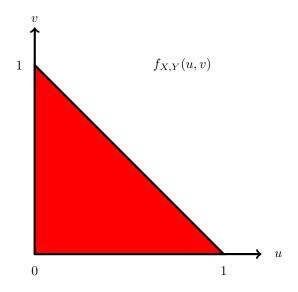
Random variables X and Y have joint probability density function $f_{X,Y}(u,v)$ which is uniform on the red area in the figure below. What is the expected value of their product?



- (a) 1/12
- (b) 1/48
- (c) 1/24
- (d) 1/4
- (e) 1/96
- (f) 1/6
- (g) 1/3
- (h) 2/3
- (i) 1/2
- (j) 3/4
- (k) 1/8
- (l) None of these