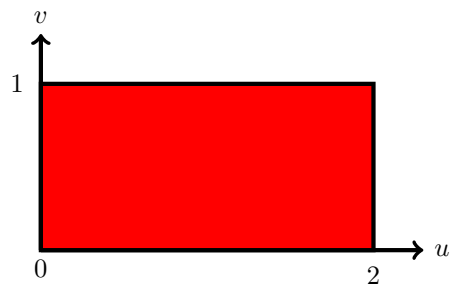If the joint probability density function of random variables X and Y is constant on the red rectangle shown below, then what is their covariance?

(a) None of these

(b) $-1/2$

(c) $1/2$

(d) $1/4$

(e) 2

(f) 4

(g) 1

(h) $1/8$

(i) $3/4$

(j) $3/8$

(k) $2/3$

(l) -1