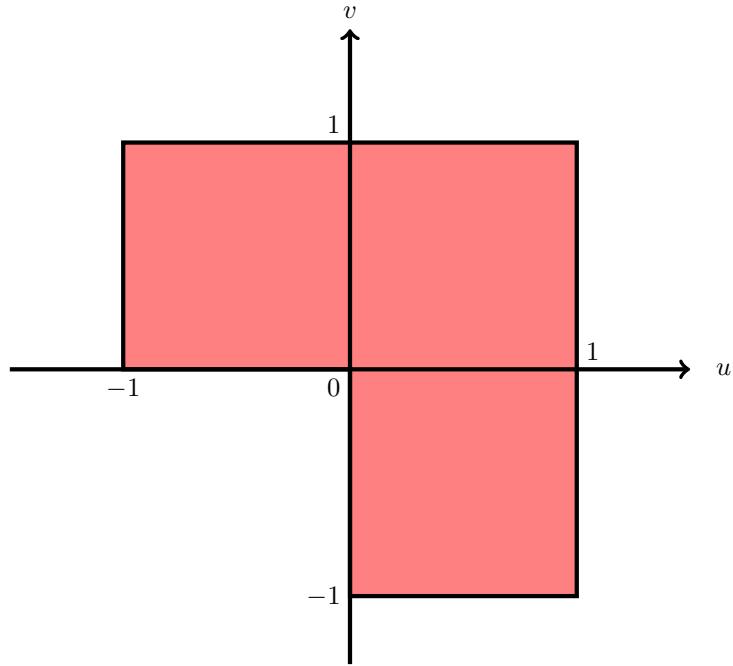


Suppose X and Y are random variables whose joint probability density function is uniform in the red region shown below, and zero elsewhere. What is the variance of X ?



- (a) $11/36$
- (b) $11/18$
- (c) $1/9$
- (d) $1/3$
- (e) $2/3$
- (f) $5/36$
- (g) $5/18$
- (h) $5/9$
- (i) $1/36$
- (j) $1/6$
- (k) $1/4$
- (l) None of these