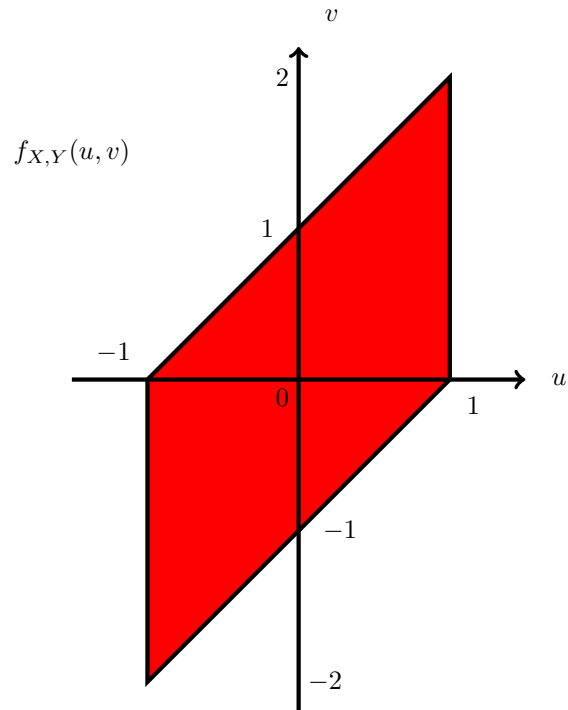


Suppose X and Y are random variables whose joint probability density function is $f_{X,Y}(u, v) = Cu^2$ in the shaded parallelogram shown below and C is a constant. The joint pdf equals zero elsewhere. What is the covariance of X and Y ?



- (a) $4C/5$
- (b) $2C/5$
- (c) $C/5$
- (d) $4/5$
- (e) $4C$
- (f) 0
- (g) None of these