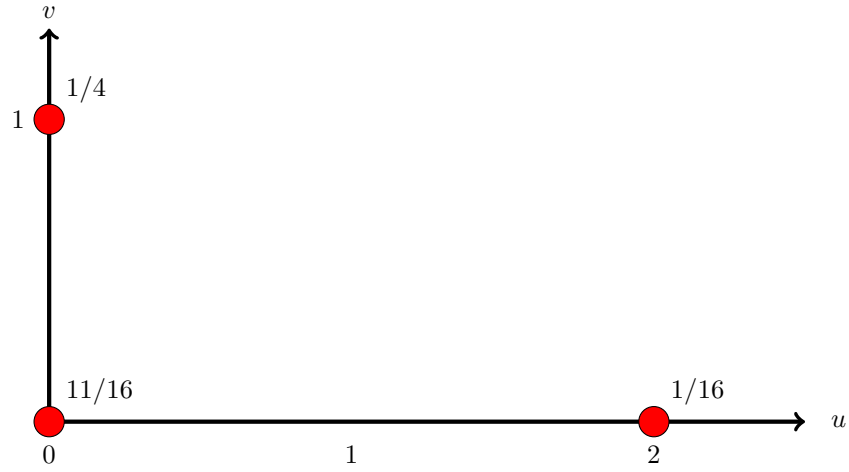


Random variables X and Y have joint probability mass function $p_{X,Y}(u,v)$ shown below. What is their correlation coefficient $\rho_{X,Y}$?



- (a) $\frac{-1}{3\sqrt{5}}$
- (b) $\frac{1}{3\sqrt{5}}$
- (c) $\frac{-1}{\sqrt{5}}$
- (d) $\frac{1}{\sqrt{5}}$
- (e) $3/5$
- (f) $-3/5$
- (g) $1/3$
- (h) $-1/3$
- (i) 0
- (j) $1/16$
- (k) $3/16$
- (l) $5/16$
- (m) $1/8$
- (n) None of these