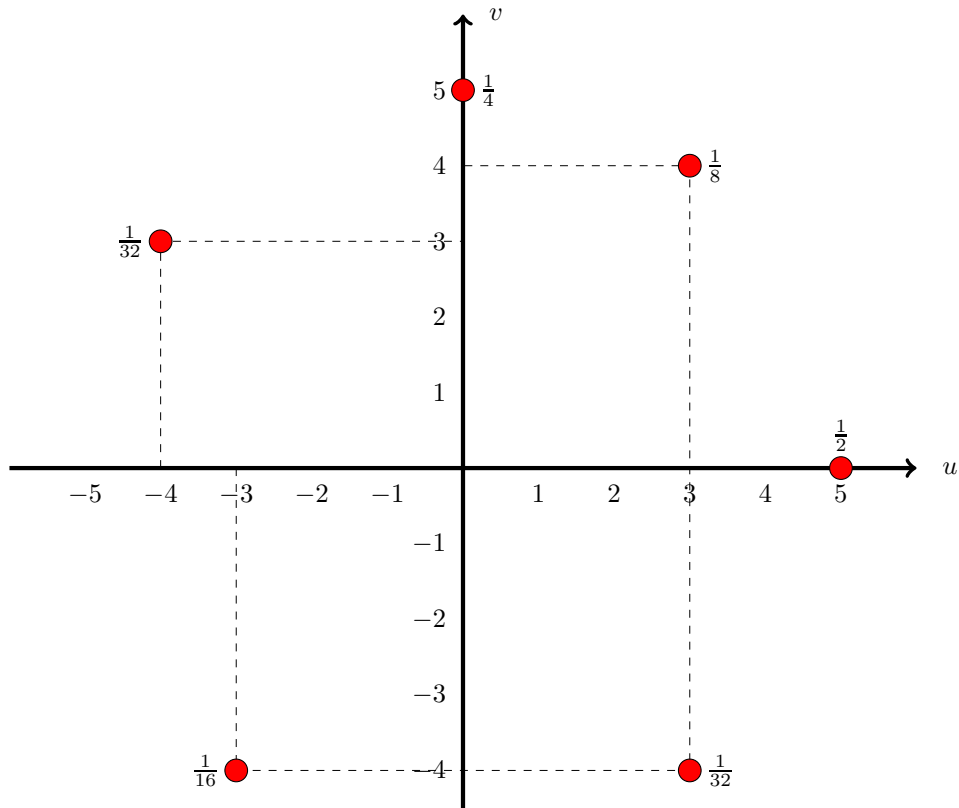


If random variables X and Y have joint probability mass function $p_{X,Y}(u, v)$ shown below (each red dot has integer coordinates), then what is the variance of $3(X^2 + Y^2) - 1$?



- (a) 0
- (b) 3
- (c) 4
- (d) 5
- (e) 9
- (f) 16
- (g) 25
- (h) $5/2$
- (i) $3/2$
- (j) $9/4$
- (k) $4/9$
- (l) 50
- (m) None of these