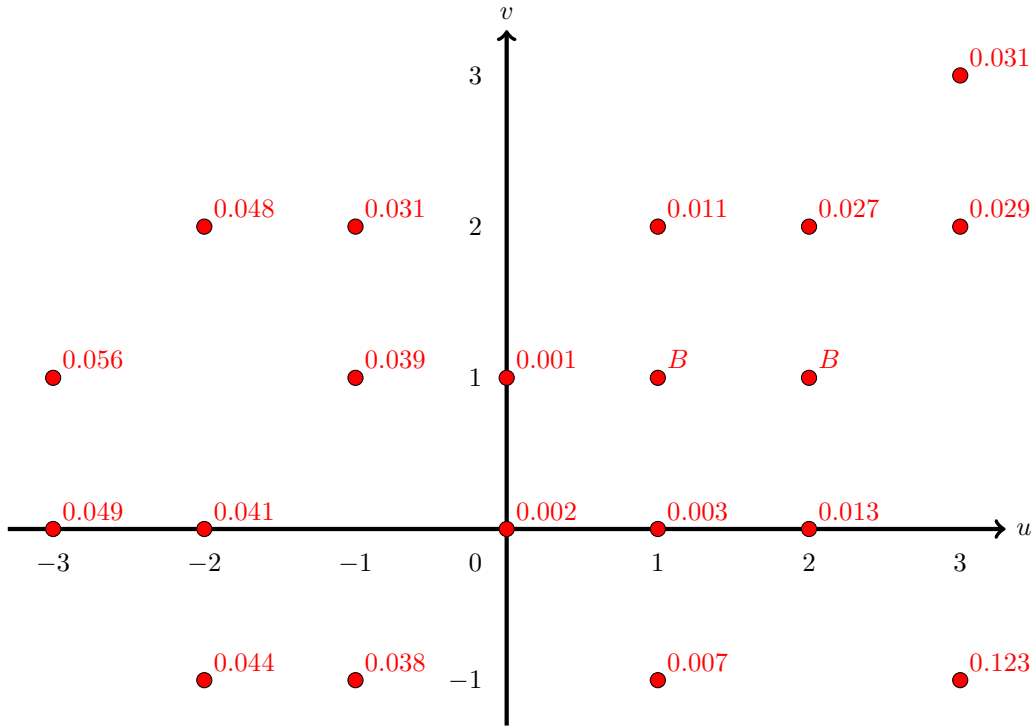


If X and Y are discrete random variables whose joint probability mass function $p_{X,Y}(u, v)$ is shown in red below (where B is a positive constant), then what is

$$F_{X,Y}(\sqrt{5}, \sqrt{7}) + P((X - 3)^2 + (Y - 2.5)^2 < 4/9)?$$



- (a) 0.877
- (b) 0.123
- (c) 0.031
- (d) 0.060
- (e) 0.040
- (f) 0.969
- (g) 0.183
- (h) 0.817
- (i) 1
- (j) 0
- (k) None of these