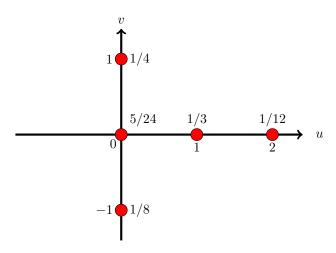
Random variables X and Y have the joint probability mass function shown below. What is the expected value of the cosine of  $(X\pi + Y\pi)$ ?

 $p_{X,Y}(u,v)$ 



- (a) -5/12
- (b) 5/12
- (c) -5/24
- (d) 5/24
- (e) -5/6
- (f) 5/6
- (g) -1/3
- (h) 1/3
- (i) 1/2
- (j) -1
- (k) 1
- (1) 0
- (m) None of these