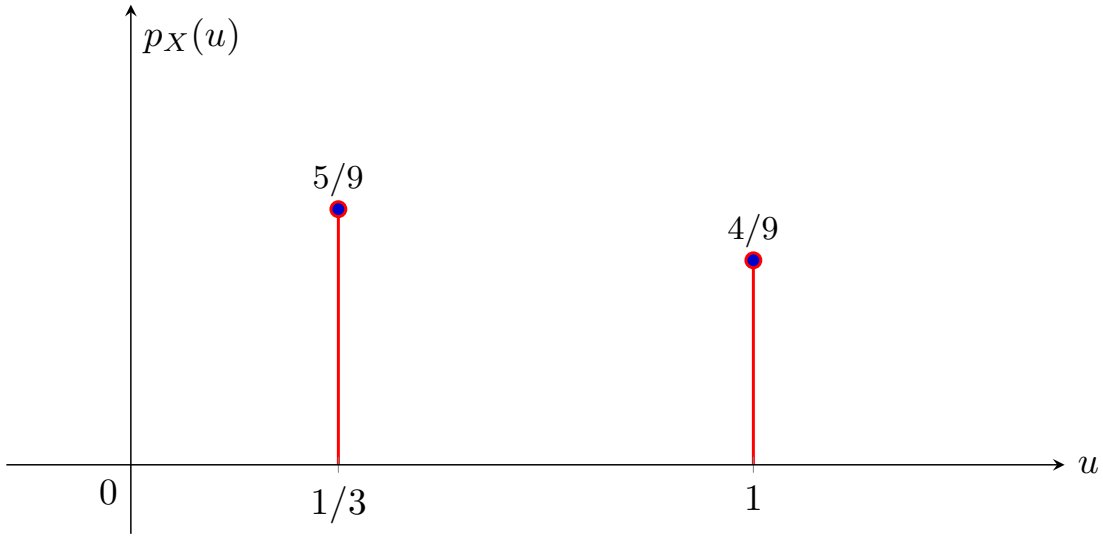
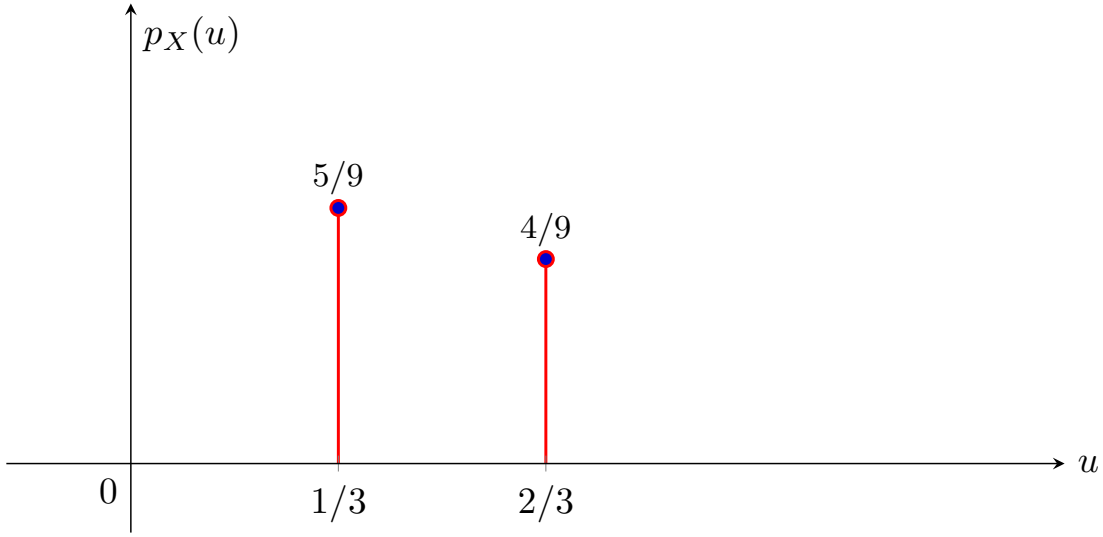
Suppose a biased coin with $P(Heads) = 1/3$ is flipped twice, and a random variable X equals $1/3$ whenever the outcomes of the two flips are the same, and X equals 1 when the outcomes are different. Which of the following is the probability mass function of X ?

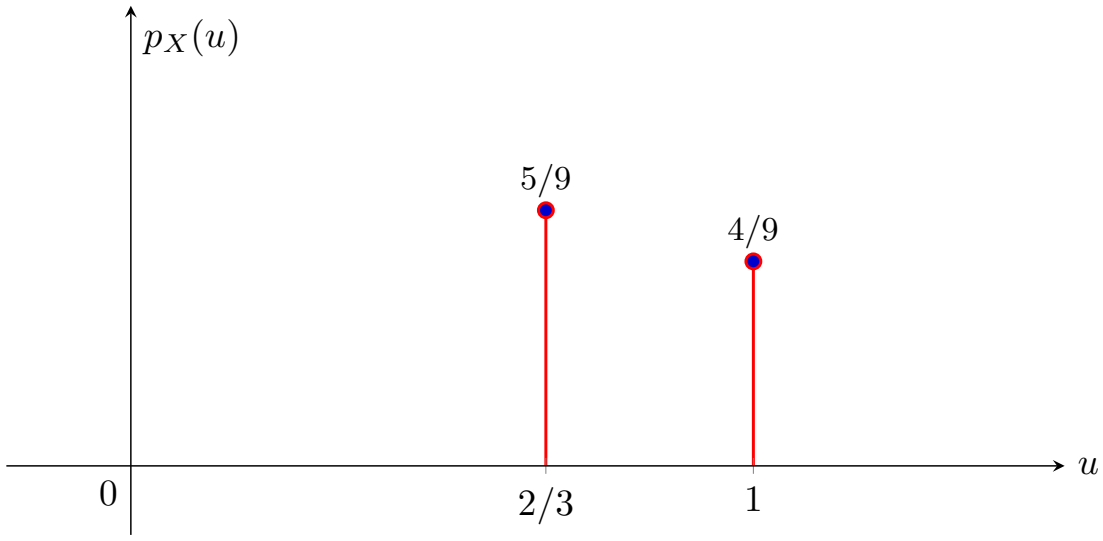
(a)



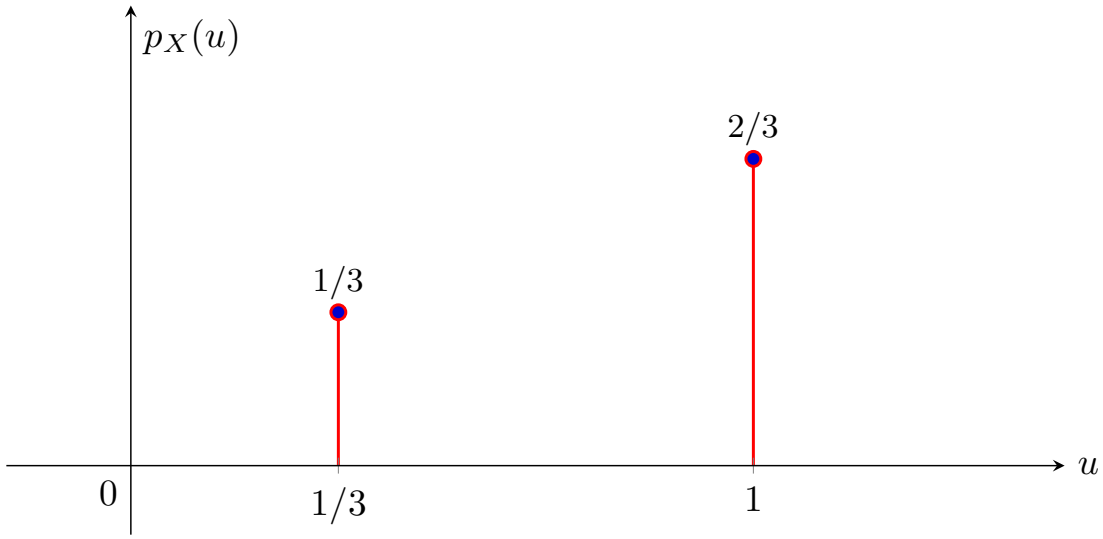
(b)



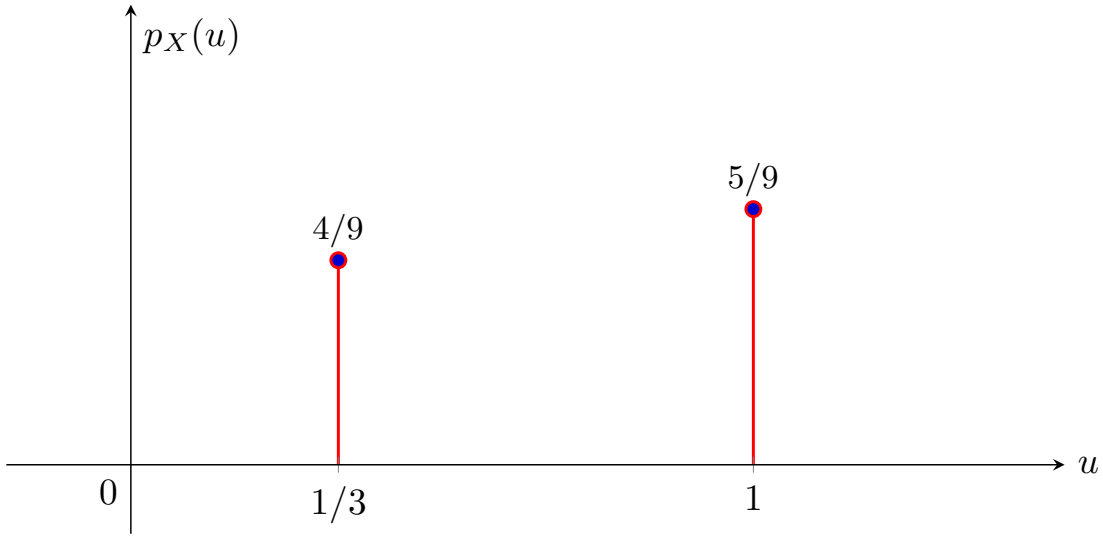
(c)



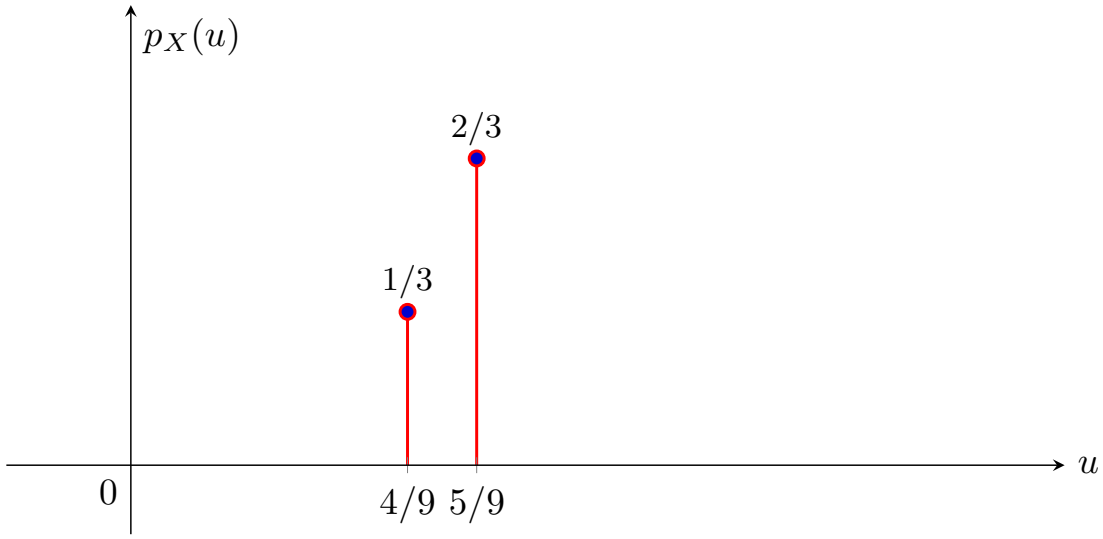
(d)



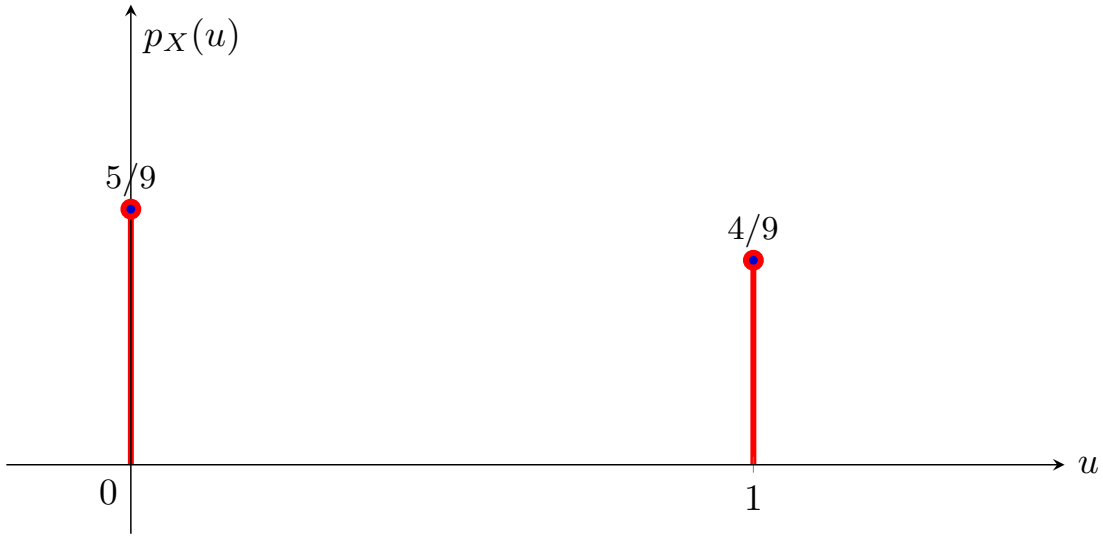
(e)



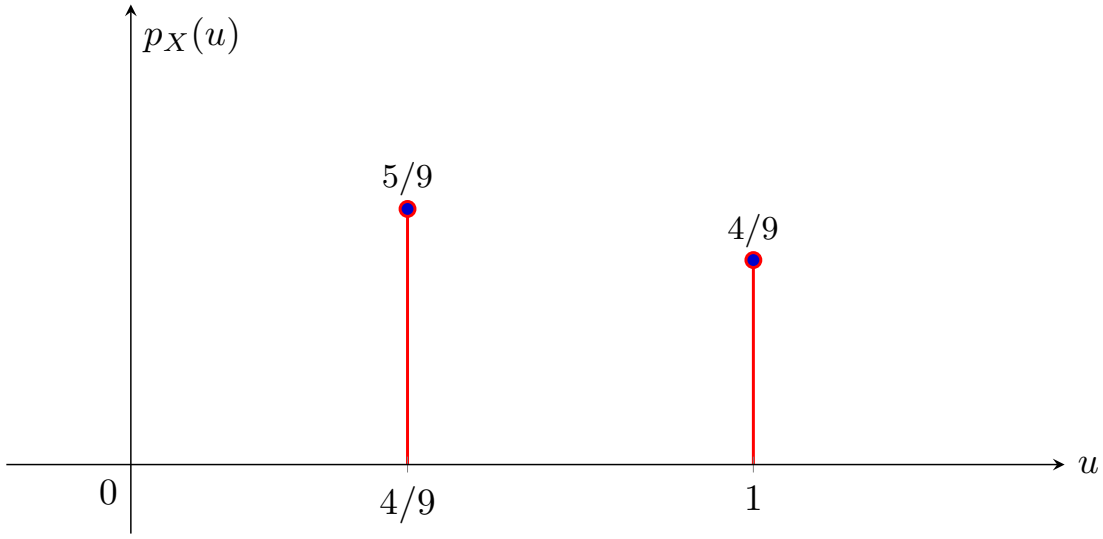
(f)



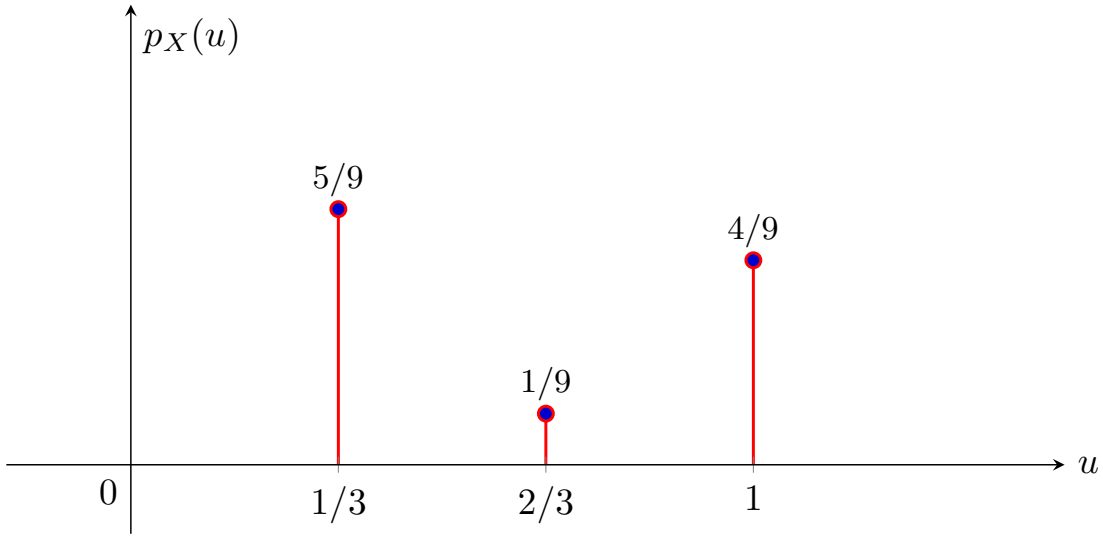
(g)



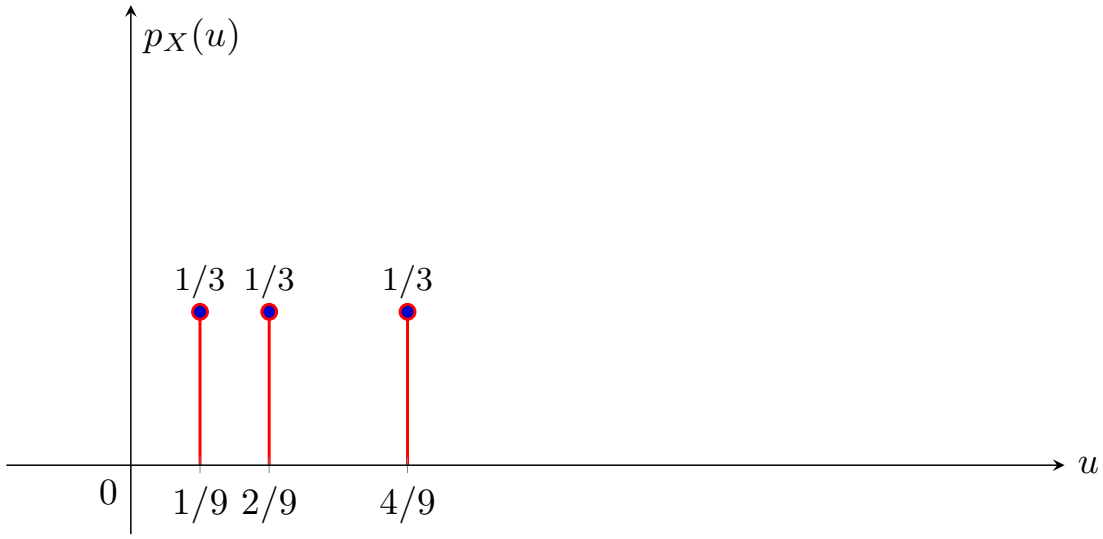
(h)



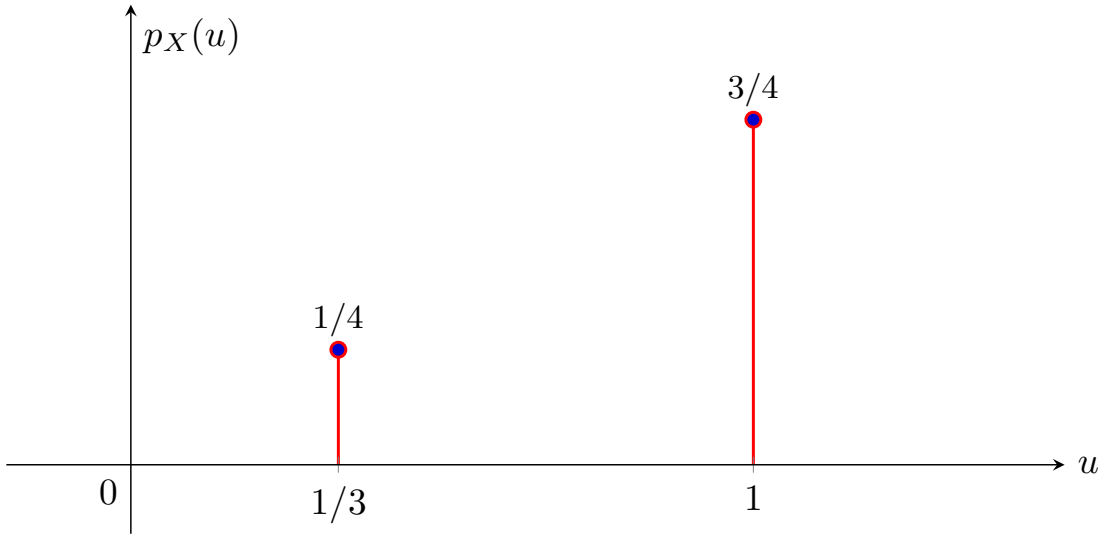
(i)



(j)



(k)



(l)