

Suppose  $A, B, C$  are events in sample space  $S$ , where  $A$  and  $C$  are disjoint. The following probabilities are known:  $P(A) = 1/8$ ,  $P(B) = 5/12$ ,  $P(C) = 5/8$ ,  $P(AB) = 1/24$ ,  $P(BC) = 1/4$ . What is the probability that neither  $A$  nor  $B$  nor  $C$  occur?

- (a)  $1/8$
- (b)  $0$
- (c)  $1/24$
- (d)  $1$
- (e)  $1/3$
- (f)  $1/12$
- (g)  $5/24$
- (h)  $1/6$
- (i)  $1/4$
- (j)  $5/12$
- (k)  $3/8$
- (l) None of these