

Let A, B, C be events such that A and B are independent given C . If $P(A^c B^c C) = P(AB^c C^c) = P(A^c B C^c) = 1/8$, $P(AB^c C) = 1/6$, $P(AB) = 1/4$, and $P(ABC^c) = 0$, then what is $P(A^c BC)$?

- (a) $3/16$
- (b) $3/8$
- (c) $1/16$
- (d) $1/32$
- (e) $3/32$
- (f) $1/8$
- (g) $1/4$
- (h) $5/8$
- (i) $5/32$
- (j) $1/24$
- (k) $5/24$
- (l) None of these