Two events A and B have probabilities 0.25 and 0.50 respectively. The probability that both A and B occur simultaneously is 0.14. Then the probability that neither A (1980) nor *B* occurs is (b) 0.25 (c) 0.11 (d) none of these (a) 0.39

.

$P(A \cup B) = P(A) + P(B) - P(A \cap B)$ = 0.25 + 0.50 - 0.14 = 0.61 $\therefore P(A' \cap B') = P((A \cup B)') = 1 - P(A \cup B)$ = 1 - 0.61 = 0.39