Let $S = \{a, b, c, d, e, f\}$ be a sample space for an experiment with equally likely outcomes, and let $E = \{a, b, c\}$, $F = \{c, d, e\}$, and $G = \{a, b, f\}$. What is the probability of EF^cG ?

(a) 1/3

(b) 1/6

(c) 2/3

(d) 5/6

(e) 1/2

(f) 1/4

(g) 1/5

(h) 1

(i) 0

(j) None of these

Solution: $P(EF^cG) = P(\{a, b\}) = 1/3$.