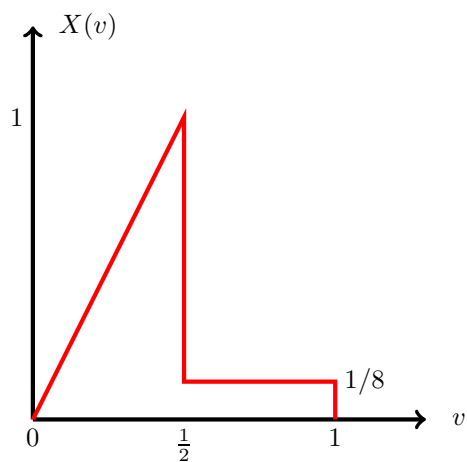


An experiment has sample space $S = [0, 1]$ and $P([a, b]) = b - a$ whenever $0 \leq a \leq b \leq 1$. A random variable X on S is defined as shown in the graph below. What is the CDF value $F_X(1/3)$?



- (a) $2/3$
- (b) $1/6$
- (c) $1/3$
- (d) $1/2$
- (e) $7/24$
- (f) $11/24$
- (g) $1/8$
- (h) $1/4$
- (i) $3/8$
- (j) $5/6$
- (k) $5/24$
- (l) None of these