106. Let X and Y denote the values of two stocks at the end of a five-year period. X is uniformly distributed on the interval $(0, 12)$. Given $X = x$, Y is uniformly distributed on the interval $(0, x)$.

Determine $\mathrm{Cov}(X, Y)$ according to this model.

(A) 0

(B) 4

(C) 6

(D) 12

(E) 24