

30. An actuary has discovered that policyholders are three times as likely to file two claims as to file four claims.

If the number of claims filed has a Poisson distribution, what is the variance of the number of claims filed?

(A) $\frac{1}{\sqrt{3}}$

(B) 1

(C) $\sqrt{2}$

(D) 2

(E) 4