

# Poisson

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- *From:* "statcat" <lusots@xxxxxxxx>
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how to show  $\lim_{n \rightarrow \infty} P(X_n = j | A_n) = [P(Y = j | Y \geq 1)]$   
 if given  $X_n$  is Binomial  $B(pn, n)$  with  $\lambda = (n \cdot pn)$  being constant, and  
 $A_n = \{X_n \geq 1\}$  and  $Y$  is Poisson ( $\lambda$ )

shall I say  $\lim_{n \rightarrow \infty} \binom{n}{j} (pn)^j (1-pn)^{n-j} = [e^{-\lambda} \cdot (\lambda^j / j!)]$

$\binom{n}{j} = n$  choose  $j$

so what does  $A_n = \{X_n \geq 1\}$  try to indicate?

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