$$P(\underbrace{1 \leq X \leq 1}_{\substack{p(X=1)=\binom{n}{1}pq^{n-1} \\ \neq 0}}) \approx P(\underbrace{1 \leq Y \leq 1}_{\substack{P(Y=1)=0 \\ \text{NO}}})?$$