

Negative binomial probability density

Probability distribution Different text (and other parts of this article) adopt slightly different definitions for negative binomial distributions. It is important to identify whether support starts at k = 0 or k = r, whether p indicates the likelihood of success or failure, [1] or the specific parametalization used in a given text. The probability mass function orange line eipersents the same average as 10 in each of these plots. The green line displays the standard deviation. Notation N B (r, p) {display style \mathrm {NB} (r,\p)} parameters r > 0 - Number of failures until the experiment is stopped (integer, but the definition can also be extended to reality) $p \in [0,1] - Probability$ of success of each experiment (actual) \in , 1, 1, 2, 3, } — Number of success espected to reality (r-1) + r, {display style {mathrm {P} (k+1, r,)} normalized incompletebeta function. Ne (r, 1) + r, {display style {mathrm {P} (k+1, r,)} normalized incompletebeta function. Ne (r, 1) + r, {display style {mathrm {P} (k+1, r,)} normalized incompletebeta function. Ne (r, 1) + r, {display style {mathrm {P} (k+1, r,)} normalized incompletebeta function. Ne (r, 1) + r,] + r

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