

## Probability Mass Function for the Negative Binomial Distribution

The probability mass function for the negative binomial distribution is as follows:

$$f(y) = \frac{\Gamma(y+1/k)}{\Gamma(y+1)\Gamma(1/k)} * \frac{(ku)^y}{(1+ku)^{y+1/k}} \text{ for } y = 0, 1, 2, 3 \dots$$

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