Distribution	Characteristic	Value
Binomial	Probability density (mass) function	$f(x) = \binom{n}{x} p^x (1-p)^{n-x}$
		$dbinom(x, n, p)$
	Cumulative Distribution function	$F(x) = \sum_{k=0}^{x} \binom{n}{k} p^k (1-p)^{n-k}$
		$pbinom(x, n, p)$
	Expected value $E(X)$	np
	Variance $V(X)$	$np(1-p)$
Geometric	Probability density (mass) function	$f(x) = p(1-p)^x$
		$dgeom(x, p)$
	Cumulative Distribution function	$F(x) = \sum_{k=0}^{x} p(1-p)^k$
		$pgeom(x, n, p)$
	Expected value $E(X)$	$\frac{1-p}{p}$
	Variance $V(X)$	$\frac{1-p}{p^2}$
Negative	Probability density (mass) function	$f(x) = \binom{x+r-1}{r-1} p^r (1-p)^x$
		$dnbinom(x, r, p)$
Binomial	Cumulative Distribution function	$F(x) = \sum_{k=0}^{x} \binom{x+r-1}{r-1} p^r (1-p)^x$
		$pnbinom(x, r, p)$
	Expected value $E(X)$	$\frac{r(1-p)}{p}$
	Variance $V(X)$	$\frac{r(1-p)}{p^2}$
Poisson	Probability density (mass) function	$f(x) = \frac{\lambda^x e^{-\lambda}}{x!}$
		$dpois(x, \lambda)$
	Cumulative Distribution function	$F(x) = \sum_{k=0}^{x} \frac{\lambda^x e^{-\lambda}}{x!}$
		$ppois(x, \lambda)$
	Expected value $E(X)$	λ
	Variance $V(X)$	λ