

Distribuição	$P(X = x)$	Parâmetros	$E(X)$	$Var(X)$	f.g.p	f.g.m
Uniforme Discreta	$\frac{1}{N}, \quad x = 1, 2, \dots, N$	$N$	$\frac{N+1}{2}$	$\frac{N^2-1}{12}$	—	—
Bernoulli	$p^x(1-p)^{1-x}, \quad x = 0, 1$	$p$	$p$	$p(1-p)$	—	—
Binomial	$\binom{n}{x}p^x(1-p)^{n-x}, \quad x = 0, 1, \dots, n$	$n, p$	$np$	$np(1-p)$	$[pt + (1-p)]^n$	$(pe^t + 1 - p)^n$
Geométrica	$p(1-p)^{x-1}, \quad x = 1, 2, 3, \dots$	$p$	$\frac{1}{p}$	$\frac{1-p}{p^2}$	$\frac{pe^t}{1-(1-p)e^t}$	$\frac{pe^t}{1-e^t(1-p)}$
Binomial Negativa	$\binom{x-1}{r-1}p^r(1-p)^{x-r}, \quad x = r, (r+1), (r+2), \dots$	$r, p$	$\frac{r}{p}$	$\frac{r(1-p)}{p^2}$	—	$\left[ \frac{pe^t}{1-e^t(1-p)} \right]^r$
Hipergeométrica	$\frac{\binom{r}{x}\binom{N-r}{n-x}}{\binom{N}{n}}, \quad x = 0, 1, 2, \dots$	$N, n, r$	$\frac{nr}{N}$	$\frac{nr}{N}\left(1 - \frac{r}{N}\right)\left(\frac{N-n}{N-1}\right)$	—	—
Poisson	$\frac{e^{-\lambda}\lambda^x}{x!}, \quad x = 0, 1, 2, \dots$	$\lambda$	$\lambda$	$\lambda$	$e^{\lambda(e^t-1)}$	$e^{\lambda(e^t-1)}$