Raspodela i oznaka	Gustina raspodele	E(X)	D(X)	Uslovi
Uniformna $U(a,b)$	$f(x)=\frac{1}{b-a}$	$\frac{a+b}{2}$	$\frac{(b-a)^2}{12}$	a<x<b
Normalna $N(\mu,\sigma^2)$	$f(x)=\frac{1}{\sigma\sqrt{2\pi}}e^{-\frac{(x-\mu)^2}{2\sigma^2}}$	μ	σ^2	
Normalna standardizovana $N(0,1)$	$f(x)=\frac{1}{\sqrt{2\pi}}e^{-\frac{x^2}{2}}$	0	1	
Eksponencijalna $\varepsilon(\lambda)$	$f(x)=\lambda e^{-\lambda x}$	$\frac{1}{\lambda}$	$\frac{1}{\lambda^2}$	0<x
Gama $\Gamma\left(a,\frac{1}{b}\right)$	$f(x)=\frac{x^{a-1}}{\Gamma(a)b^a}e^{-\frac{x}{b}}$	ab	ab^2	0<x
Beta $\beta(a,b)$	$f(x)=\frac{\Gamma(a+b)}{\Gamma(a)\Gamma(b)}x^{a-1}(1-x)^{b-1}$	$\frac{a}{a+b}$	$\frac{ab}{(a+b)^2(a+b+1)}$	0<x<1
Košijeva	$f(x)=\frac{\lambda}{\pi(\lambda^2+x^2)}$	-	-	
Log-normalna	$f(x)=\frac{1}{\sigma x\sqrt{2\pi}}e^{-\frac{(\ln x-\mu)^2}{2\sigma^2}}$	$e^{\frac{\sigma^2+2\mu}{2}}$	$e^{\sigma^4+\mu}\left(e^{\sigma^4}-1\right)$	0<x
Logistička $L(a,b)$	$f(x)=\frac{be^{-(a+bx)}}{\left(1+e^{-(a+bx)}\right)^2}$	$\frac{a}{b}$	$\frac{\pi^2}{3b^2}$	0<x
Vejbulova $W(a,b)$	$f(x)=abx^{a-1}e^{-bx^a}$	$b^{-\frac{1}{a}}\Gamma\left(\frac{1}{a}+1\right)$	$b^{-\frac{2}{a}}\left[\frac{2}{a}\Gamma\left(\frac{2}{a}\right)-\frac{1}{a^2}\left(\Gamma\left(\frac{1}{a}\right)\right)^2\right]$	0<x, 0<a
Laplasova	$f(x)=\frac{1}{2\lambda}e^{-\frac{\lvert x-\mu\rvert}{\lambda}}$	μ	$2\lambda^2$	

Raspodela i oznaka	Gustina raspodele	E(X)	D(X)	Uslovi
Relejeva	$f(x)=\frac{x}{\sigma^2}e^{-\frac{x^2}{2\sigma^2}}$	$\frac{\sigma}{\sqrt{2\pi}}$	$\sigma^2\left(2-\frac{\pi}{2}\right)$	0<x
Hi-kvadrat χ^2_n	$f(x)=\frac{x^{\frac{n}{2}-1}e^{-\frac{x}{2}}}{\Gamma\left(\frac{n}{2}\right)2^{\frac{n}{2}}}$	n	2n	0<x
Studentova t_n	$f(x)=\frac{\Gamma\left(\frac{n+1}{2}\right)\left(1+\frac{x^2}{n}\right)^{\frac{n+1}{2}}}{\sqrt{n\pi}\Gamma\left(\frac{n}{2}\right)}$	0 za n>1	$\begin{cases}\frac{n}{n-2}, & n>2\\ \infty, & n\le 2\end{cases}$	
Fišerova $F_{m,n}$	$f(x)=\frac{\Gamma\left(\frac{m+n}{2}\right)\left(\frac{m}{n}\right)^{\frac{m}{2}}x^{\frac{m}{2}-1}}{\Gamma\left(\frac{m}{2}\right)\Gamma\left(\frac{n}{2}\right)\left(1+\frac{mx}{n}\right)^{\frac{m+n}{2}}}$	$\frac{n}{n-2}$ za n>2	$\frac{2n^2(n+m-2)}{m(n-2)^2(n-4)}$	

- Eksponencijalna, Gama, Vejbulova, Relejeva, Hi-kvadrat su specijalni slučajevi uopštene gama raspodele sa gustinom:

$$f(x)=\frac{da^{\frac{c}{d}}}{\Gamma\left(\frac{c}{d}\right)}x^{c-1}e^{-ax^d}$$

- Za $\alpha=n$ i $\beta=\frac{1}{n\mu}$ u Gama raspodeli dobijamo raspodelu Erlanga.
- Za n=3 Hi-kvadrat raspodela se naziva i raspodelom Maksvela.