

Distribution	$P(X \leq a)$	$P(a \leq X \leq b)$	$P(X \geq b)$	$P(X \leq a \text{ or } X \geq b)$
uniform	punif(a)	punif(b)-runif(a)	1-punif(b)	1-punif(b)+punif(a)
normal	pnorm(a, μ , σ)	pnorm(b, μ , σ)-pnorm(a, μ , σ)	1-pnorm(b, μ , σ)	1-pnorm(b, μ , σ)+pnorm(a, μ , σ)
chi-square	pchisq(a,n)	pchisq(b,n)-pchisq(a,n)	1-pchisq(b,n)	1-pchisq(b,n)+pchisq(a,n)
t	pt(a,n)	pt(b,n)-pt(a,n)	1-pt(b,n)	1-pt(b,n)+pt(a,n)
F	pf(a,n1,n2)	pf(b,n1,n2)-pf(a,n1,n2)	1-pf(b,n1,n2)	1-pf(b,n1,n2)+pf(a,n1,n2)
exponential	pexp(a, λ)	pexp(b, λ)-pexp(a, λ)	1-pexp(b, λ)	1-pexp(b, λ)+pexp(a, λ)
beta	pbeta(a, α , β)	pbeta(b, α , β)-pbeta(a, α , β)	1-pbeta(b, α , β)	1-pbeta(b, α , β)+pbeta(a, α , β)
gamma	pgamma(a, α , β)	pgamma(b, α , β)-pgamma(a, α , β)	1-pgamma(b, α , β)	1-pgamma(b, α , β)+pgamma(a, α , β)
logistic	plogis(a, μ ,s)	plogis(b, μ ,s)-plogis(a, μ ,s)	1-plogis(b, μ ,s)	1-plogis(b, μ ,s)+plogis(a, μ ,s)
pareto	ppareto(a, α ,k)	ppareto(b, α ,k)-ppareto(a, α ,k)	1-ppareto(b, α ,k)	1-ppareto(b, α ,k)+ppareto(a, α ,k)
weibull	pweibull(a,v, λ)	pweibull(b,v, λ)-pweibull(a,v, λ)	1-pweibull(b,v, λ)	1-pweibull(b,v, λ)+pweibull(a,v, λ)