

# Chi distribution

The chi distribution is a continuous probability distribution. It is the distribution of the square root of the sum of squares of independent random variables having a standard normal distribution. It can be also defined as distribution of the Euclidean distance of the random variables from the origin.

## Cumulative distribution function

$a := \text{curve2d}(\text{chidist}(x, 1), x, 0, 8, 100)$

$b := \text{curve2d}(\text{chidist}(x, 2), x, 0, 8, 100)$

$c := \text{curve2d}(\text{chidist}(x, 3), x, 0, 8, 100)$

$d := \text{curve2d}(\text{chidist}(x, 4), x, 0, 8, 100)$

$e := \text{curve2d}(\text{chidist}(x, 5), x, 0, 8, 100)$

Name	Title	Color	Origin
a	k = 1	-----	
b	k = 2	-----	
c	k = 3	-----	
d	k = 4	-----	
e	k = 5	-----	

Chi - Cumulative distribution function

