DISPDF

PURPOSE

Compute the discrete uniform probability density function.

DESCRIPTION

The discrete uniform probability density function is :

$$p(x, n) = \frac{1}{n+1}$$
 for x = 0, 1, 2, ..., n (EQ 8-166)

SYNTAX

LET <y> = DISPDF(<y>,<n>) <SUBSET/EXCEPT/FOR qualification>

EXAMPLES

LET A = DISPDF(3,20)LET Y = DISPDF(X1,100)

DEFAULT

None

SYNONYMS

None

RELATED COMMANDS

DISCDF	=	Compute the discrete uniform cumulative distribution function.
DISPPF	=	Compute the discrete uniform percent point function.
UNICDF	=	Compute the uniform cumulative distribution function.
UNIPDF	=	Compute the uniform probability density function.
UNIPPF	=	Compute the uniform percent point function.
UNISF	=	Compute the uniform sparsity function.
NORCDF	=	Compute the normal cumulative distribution function.
NORPDF	=	Compute the normal probability density function.
NORPPF	=	Compute the normal percent point function.

REFERENCE

"Statistical Distributions," 2nd. Edition, Evans, Hastings, and Peacock, John Wiley and Sons, 1993, (chapter 36).

"Discrete Distributions," Johnson and Kotz, Houghton-Mifflin, 1970 (chapter 10).

APPLICATIONS

Data Analysis

IMPLEMENTATION DATE

94/9

PROGRAM

TITLE AUTOMATIC X1LABEL X Y1LABEL PROBABILITY LINE BLANK SPIKE ON PLOT DISPDF(X,20) FOR X = 0 1 20

