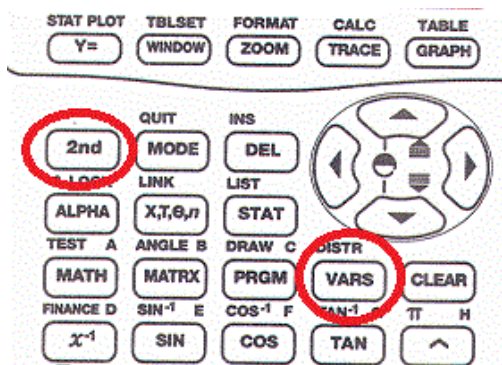


The Normal Distribution on the TI-83/84 Plus

The three major functions for the Normal Curve on the TI-83/84 Plus calculators are located in the Distribution menu. Which can be accessed by pressing [2^{ND}] [VARS]:



NormalPDF:

Generally, normalpdf is not used except in the Y= Editor to draw the normal curve.

NormalCDF:

The normalcdf function will give the probability will fall between two user defined limits on either the standard normal curve, or on any arbitrary normal curve. The arguments for this function are:

- Normalcdf[left limit, right limit, mean (μ), standard deviation (σ)]

InvNorm:

The inverse normal function will give the x value associated with the given area on the left of the curve. The arguments for this function are:

- invNorm[area to the left, mean (μ), standard deviation (σ)]

A fourth command, ShadeNorm, may be used to draw a picture of the normal curve shaded between two user defined limits; its arguments are:

- ShadeNorm[left limit, right limit, mean (μ), standard deviation (σ)]

Bear in mind, that since ShadeNorm is only a drawing command, not an actual line in the Y= Editor, resizing the window or using the ClrDraw command will remove the picture.