

The function, UNL , is defined by

$$UNL(c) = \int_c^{\infty} (t - c)f(t)dt$$

where c is a constant and $f(\cdot)$ is the normal probability distribution function. An alternative computational formula for UNL is the following:

$$UNL(z) = f(z) - z(1 - F(z))$$

where $f(\cdot)$ and $F(\cdot)$ are the probability distribution function and cumulative distribution function for Standard Normal Distribution respectively.

Remark. This function has an extensive use in Risk Analysis and the Theory of Blackjack.