LisaCalc 7/7: Regression--explanations and clarifications

Some confusion has arisen regarding the F-test formula, a type of Regression value. To begin with, the formula as listed in the LisaCalc manual on 167 is incorrect; it should be F=(r/(k-1))/((1-r)/(n-k)).

Another cause of confusion about this formula seems to arise from the fact that the result that the function returns is the coefficient of determination, also known as the "r-square value"; the r in the formula, then, is already the r-square value as returned by the regression function. It does not need to be squared in the formula.

Two more corrections to the Regression section in the LisaCalc 7/7 manual:

  1. Page 154: The formula at the bottom of the page should read:
     Correlation (B3:E7, H6:19).

  2. On page 165, under Type of Regression Values: The fourth sentence
     incorrectly states that the correlation coefficients are sorted from the
     highest to the lowest index. In fact, they are listed in the order they
     appear in the data matrix.
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