

COMPUTING *P*-VALUES FROM *t* DISTRIBUTIONS ON THE CALCULATOR

TI-Nspire instructions in Appendix B; HP Prime Instructions on the book's Web site.

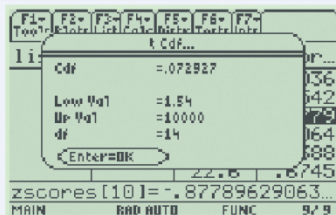
You can use the `tcdf` command on the TI-89 to calculate areas under a *t* distribution curve. The syntax is `tcdf(lower bound, upper bound, df)`.

Let's use the `tcdf` command to compute the *P*-values from the last two examples.

Better batteries: To find $P(t \geq 1.54)$,

TI-89

- In the Stats/List Editor, press `FS` (Distr) and choose `t Cdf...`
- In the dialog box, enter these values: Lower value: 1.54, Upper value: 10000, Deg of Freedom, `df`: 14, and then choose `ENTER`.



Two-sided test: To find the *P*-value for the two-sided test with $df = 36$ and $t = -3.17$, do `tcdf(-10000, -3.17, 36)` and multiply the result by 2.