

18. Inverse t on the calculator

The TI-Nspire allows you to find critical values t^* using the inverse t command. As with the calculator's inverse Normal command, you have to enter the *area to the left* of the desired critical value. Let's use the inverse t command to find the critical values for parts (a) and (b) in the example on page 530.

- Press $\left[\frac{\square}{\square}\right]$ (or $\left[\text{Home}\right]$ $\left[\text{A}\right]$) to insert a *Calculator Scratchpad*.
- Press $\left[\text{menu}\right] \rightarrow \text{Statistics} \rightarrow \text{Distributions} \rightarrow \text{Inverse } t$.
- A dialogue box will appear. For part (a), enter .025 for the *Area* and 11 for the *Deg of Freedom, df*. $\left[\text{tab}\right]$ to $\left[\text{OK}\right]$ and press $\left[\text{enter}\right]$.

Inverse t

Area: 0.025

Deg of Freedom, df: 11

OK Cancel

- For part (b), enter .05 for the *Area* and 47 for the *Deg of Freedom, df*. $\left[\text{tab}\right]$ to $\left[\text{OK}\right]$ and press $\left[\text{enter}\right]$.

Inverse t

Area: .05

Deg of Freedom, df: 47

OK Cancel

- The critical values t^* should now be displayed.

Scratchpad

$\text{invt}(0.025, 11)$	-2.20099
$\text{invt}(0.05, 47)$	-1.67793

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