

**[6.52] Return complex result in REAL mode with 0i**

In general, complex results are not returned if the Complex Format mode is set to REAL. For example,

$$\ln(-e^x)$$

gives the *Non-real result* error. However, the correct result is returned if you include the complex  $i$ :

$$\ln(-e^x) + 0i \quad \text{returns} \quad x + i\pi$$

Note that adding  $0i$  to the original expression does not change it.

*(Credit to Kevin Kofler)*