```
\begin{array}{lll} e^{i\phi} & = & \cos\phi + i\sin\phi & \# \text{ Euler's Formula} \\ & \Rightarrow & e^{i\pi} = \cos\pi + i\sin\pi & \# \sec\phi = \pi \\ & \Rightarrow & e^{i\pi} = -1 + i\cdot 0 & \# \cos\pi = -1 \text{ and } \sin\pi = 0 \\ & \Rightarrow & e^{i\pi} = -1 + 0 & \# i\cdot 0 = 0 \\ & \Rightarrow & e^{i\pi} = -1 & \# \text{ simplify} \\ & \Rightarrow & e^{i\pi} + 1 = 0 & \# \text{ Euler's Identity} \end{array}
```