

$$\begin{aligned}
 \cos z &= \left\{ \cos z = \frac{e^{iz} + e^{-iz}}{2} \right\} \\
 &= \frac{e^{iz} + e^{-iz}}{2} = \frac{e^{-1} + e^1}{2} = \frac{1}{2e} + \frac{e}{2} \\
 &= \frac{1 + e^2}{2e} \quad \text{but} \quad \frac{e^{-1} + e^1}{2} = \cosh 1
 \end{aligned}$$