PROBLEM:

The Euler and inverse Euler formulas can often simplify a messy complex formula.

(a) State the inverse Euler formula for the sine function:

$$\sin\theta =$$

(b) Evaluate the following complex-valued expression into a numerical answer for z in polar form.

$$z = \frac{1 + e^{j2\pi/3}}{e^{j2\pi/3} - e^{-j2\pi/3}}$$