University of Nebraska-Lincoln
Electronic Circuits: Quiz 1

January 30, 2026

Name: _____ **Total Points: 10**

1. **(10 points)** Consider the frequency response

$$H(e^{j\omega}) = 1 + e^{-j\omega}$$

Find the **real part** of $H(e^{j\omega})$ as a function of ω. **Note:** don't leave any j's, i's, $\sqrt{-1}$'s, etc.