

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  $\omega$ . **Note:** don't leave any  $j$ 's,  $i$ 's,  $\sqrt{-1}$ 's, etc.