EE 105 Spring 2026

Prelab Worksheet 1: Electronic Test Equipment, RC response, diode IV

Name(s): _____ Lab Section: _____

Submit this worksheet to Gradescope before your lab section the week it is due.

1

V_{out} = _____ I_{20k} = _____

2.1

Time Constant, τ = _____

2.2

Transfer Function, H(s) = _____

2.3

Pole frequency: ω_p = _____ , f_p = _____

2.4

Bode Plot:

2.5

Formula for C, given magnitude: C = _____

2.6

Formula for C, given phase: C = _____

3.1

Time Constant, τ = _____

3.2

Transfer Function, H(s) = _____

3.3

Pole frequency: ω_p = _____ , f_p = _____

3.4

Bode Plot:

4.1

If $V_{out} = 0$ V, I = _____

4.2

If $V_{out} = 1$ V, I = _____

4.3

IV Curve: