EE254 - Op Amp Characteristics Lab Report Format

1. Front page
2. Lab sheet
3. Part (a)
    a. Observations for steps 1 & 2
    b. Calculations for steps 1 & 2

4. Part (b)
    a. Observations
    b. Calculations

5. Part (c)
    a. Observations
        i. Table 01: Input amplitude, Output amplitude, phase shift variation with input signal frequency
        ii. A specimen calculation for gain response and phase response
    b. Tabulation
        i. The graph and the table (Table 02) for the **variation of voltage gain with frequency**
        (Note: for the graph, the x-axis should be in dB/Hz, the y-axis is voltage gain.)
        ii. The graph and the table (Table 03) for the **variation of phase response with frequency**
        (Note: for the graph, the x-axis should be in dB/Hz, the y-axis is phase response in degrees.)

6. Part (d)
    a. Observations
    b. Calculations

7. Part (e)
    a. Observations
        i. Observation for the 3$^{rd}$ question
        ii. Table 04: Rising time, falling time, and amplitude of the output waveform for different frequencies
        iii. A specimen calculation for the temporal rate of change of the output voltage for both rising and falling edge cases (units should be in V/$\mu$s)
    b. Tabulation
        i. Table 05: Variation of the temporal rate of change of the closed-loop amplifier output voltage for rising and falling edges with frequencies
    c. Results
        i. Calculate results for 5 (d).

8. Discussion
9. References