**Lab - 8 Datasheet**

**Circuit Analysis – I**

|  |  |
| --- | --- |
| Student Name(s) |  |
| Date Lab Performed: |  |

**Table 1: Circuit 1**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | **Frequency** | **Period** | **Peak-to-Peak of** | **Peak-to-Peak of** | **Phase difference between** |
| Theoretical  (From Prelab) |  |  |  |  |  |
| Experimental |  |  |  |  |  |
| % Error |  |  |  |  |  |

**Note:** You must write the values of all parameters with proper units in the tables.

**Table 2: Circuit 2**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | **Frequency** | **Period** | **Peak-to-Peak of** | **Peak-to-Peak of** | **Phase difference between** |
| Theoretical  (From Prelab) |  |  |  |  |  |
| Experimental |  |  |  |  |  |
| % Error |  |  |  |  |  |

**Table 3: Circuit 3**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | **Frequency** | **Period** | **Peak-to-Peak of** | **Peak-to-Peak of** | **Phase difference between** |
| Theoretical  (From Prelab) |  |  |  |  |  |
| Experimental |  |  |  |  |  |
| % Error |  |  |  |  |  |

Use this space to show the **% error calculations for and the period of the waveform**

|  |
| --- |
|  |

**Oscilloscope Screenshot # 1: Circuit # 1**

**Oscilloscope Screenshot # 2: Circuit # 2**

**Oscilloscope Screenshot # 3: Circuit # 3**

**Conclusions:** (min 150 words. Max 300 words)

**Lab-8 Datasheet Submission Requirements**

* Make sure to write a thoughtful conclusion in the **Conclusions** section summarizing your key observations and learnings from this lab. Conclusions should be at least **150 words** long. Conclusions section is worth 5 points (the lab is worth total 100 points – Prelab: 30 pts, Hands-on Lab: 70 pts).
* **File format:** Once this Datasheet is complete, **save/convert** this word file **as a .pdf file** having a filename as: “Lab-8 Datasheet\_FirstName of Student 1\_FirstName of Student 2.pdf”. For example, if name of the two students performing the lab in a group are Tom Cruz and Morgan Freeman, respectively, then the Lab-8 Datasheet file should have the following name: “Lab-8 Datasheet\_Tom\_Morgan.pdf”.
* Check with your lab instructor about specific instructions on how to submit your Lab-8 Datasheet for assessment and grading.