**Student Names:**

**Student IDs:**

**Group ID:**

**Session ID:**

# CMPE 240 2018 Experiment 2 Preliminary Work

## Truth Table

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **#** | **i2** | **i1** | **i0** | **b** |  |
| **0** | 0 | 0 | 0 |  |  |
| **1** | 0 | 0 | 1 |  |  |
| **2** | 0 | 1 | 0 |  |  |
| **3** | 0 | 1 | 1 |  |  |
| **4** | 1 | 0 | 0 |  |  |
| **5** | 1 | 0 | 1 |  |  |
| **6** | 1 | 1 | 0 |  |  |
| **7** | 1 | 1 | 1 |  |  |

## Sum of Products (SOP)

**b =**

## Minimized SOP

**b =**

**=**

**=**

**=**

**=**

**=**

**=**

1. **Student Names:**
2. **Student IDs:** 
   1. **Group ID:**

## Product of Sums (POS)

**b =**

## Minimized POS

**b =**

**=**

**=**

**=**

**=**

**=**

## Circuit