Engineering Assignment with Small Tables

1. Analyze the table and calculate the missing Voltage for ID 3 using Ohm's law: Power (W) = Voltage (V) × Current (A).

|  |  |  |
| --- | --- | --- |
| **ID** | **Voltage (V)** | **Current (A)** |
| 1 | 220 | 2.0 |
| 2 | 110 | 1.5 |
| 3 | ? | 2.0 |

1. Based on the given truth table, add the derived columns for NOT C, B OR NOT C, and A AND (B OR NOT C).

|  |  |  |
| --- | --- | --- |
| **A** | **B** | **C** |
| 0 | 0 | 0 |
| 0 | 1 | 1 |
| 1 | 1 | 0 |

1. Compare the current values in Table 1 and identify which setup uses the least current for the given voltage.
2. Discuss a practical application of the logical truth table from Table 2 in automation or circuit design.