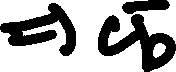
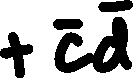
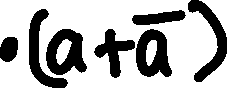
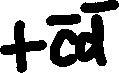
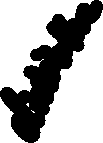
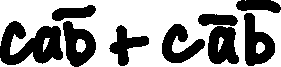
Homework 2

1. Please provide the CNF of the following function and then simplify it.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| CD / AB | 00 | 01 | 11 | 10 |
| 00 | 1 | 1 | 1 | 1 |
| 01 | 0 | 0 | 0 | 0 |
| 11 | 1 | 0 | 0 | 1 |
| 10 | 1 | 0 | 0 | 1 |



2. Design the Boolean circuit (using logical gates) to achieve the following function

Input: two numbers A and B with 3 bits ( and )

Output: if A = B, then output 1; otherwise output 0.

