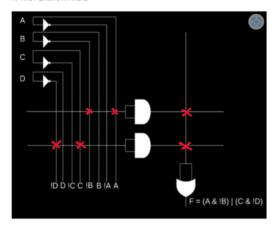


= (DI and DI) or (C; and (Ao to 1 Bo)) and (Ao tor Bo)

home_work_week_1 Crp.

2. Show how the logic equation (A AND NOT(B)) OR (C AND NOT(D)) can be implemented using the following:

A. The PLA shown here:



B. The LUT shown here:

| RAM CONTENTS | | | | |
|--------------|---|---|---|-------------|
| Address | | | | Output Data |
| Α | В | С | D | F |
| 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 1 | |
| 0 | 0 | 1 | 0 | 1 |
| 0 | 0 | 1 | 1 | ٥ |
| 0 | 1 | 0 | 0 | 0 |
| 0 | 1 | 0 | 1 | 0 |
| 0 | 1 | 1 | 0 | 1 |
| 0 | 1 | 1 | 1 | 0 |
| 1 | 0 | 0 | 0 | 1 |
| 1 | 0 | 0 | 1 | 1 |
| 1 | 0 | 1 | 0 | 4 |
| 1 | 0 | 1 | 1 | 4 |
| 1 | 1 | 0 | 0 | 0 |
| 1 | 1 | 0 | 1 | 0 |
| 1 | 1 | 1 | 0 | 1 |
| 1 | 1 | 1 | 1 | 0 |

