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SUM of PRODUCTS

Map

| | $\overline{\text{C.D}}$ | \overline{C} .D | C.D | $C.\overline{D}$ |
|-----------------------------|-------------------------|-------------------|-----|------------------|
| $\overline{A}.\overline{B}$ | 0 | 0 | 0 | 0 |
| \overline{A} .B | 0 | X | 1 | 1 |
| A.B | X | X | X | X |
| $A.\overline{B}$ | 1 | 1 | X | X |

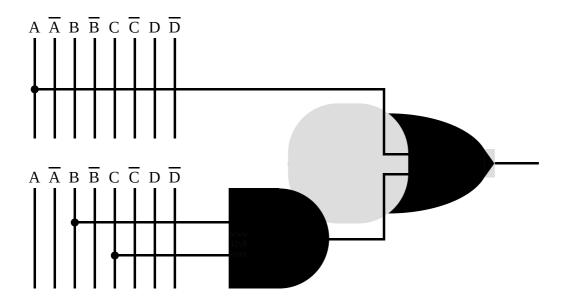
Map Layout

| | $\overline{\text{C.D}}$ | \overline{C} .D | C.D | $C.\overline{D}$ |
|-----------------------------|-------------------------|-------------------|-----|------------------|
| $\overline{A}.\overline{B}$ | 0 | 1 | 3 | 2 |
| \overline{A} .B | 4 | 5 | 7 | 6 |
| A.B | 12 | 13 | 15 | 14 |
| $A.\overline{B}$ | 8 | 9 | 11 | 10 |

Groups

| (8,9,10,11,12,13,14,15) | A |
|-------------------------|-----|
| (6,7,14,15) | B.C |

$$y = A + BC$$



5/12/22, 4:06 AM ____A-B-C-D____m_6-7-8-9___d_5-10-11-12-13-14-15___option-0___898788965271894988712

Truth Table

| | A | В | С | D | Y |
|----|---|---|---|---|---|
| 0 | 0 | 0 | 0 | 0 | 0 |
| 1 | 0 | 0 | 0 | 1 | 0 |
| 2 | 0 | 0 | 1 | 0 | 0 |
| 3 | 0 | 0 | 1 | 1 | 0 |
| 4 | 0 | 1 | 0 | 0 | 0 |
| 5 | 0 | 1 | 0 | 1 | X |
| 6 | 0 | 1 | 1 | 0 | 1 |
| 7 | 0 | 1 | 1 | 1 | 1 |
| 8 | 1 | 0 | 0 | 0 | 1 |
| 9 | 1 | 0 | 0 | 1 | 1 |
| 10 | 1 | 0 | 1 | 0 | X |
| 11 | 1 | 0 | 1 | 1 | X |
| 12 | 1 | 1 | 0 | 0 | X |
| 13 | 1 | 1 | 0 | 1 | X |
| 14 | 1 | 1 | 1 | 0 | X |
| 15 | 1 | 1 | 1 | 1 | X |

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