

| VALUE | A | B | C | D | E | F |
|-------|---|---|---|---|---|---|
| 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1 | 0 | 0 | 0 | 0 | 1 | 0 |
| 2 | 0 | 0 | 0 | 1 | 0 | 0 |
| 3 | 0 | 0 | 0 | 1 | 1 | 0 |
| 4 | 0 | 0 | 1 | 0 | 0 | 0 |
| 5 | 0 | 0 | 1 | 0 | 1 | 1 |
| 6 | 0 | 0 | 1 | 1 | 0 | 0 |
| 7 | 0 | 0 | 1 | 1 | 1 | 1 |
| 8 | 0 | 1 | 0 | 0 | 0 | 0 |
| 9 | 0 | 1 | 0 | 0 | 1 | 0 |
| 10 | 0 | 1 | 0 | 1 | 0 | 0 |
| 11 | 0 | 1 | 0 | 1 | 1 | 0 |
| 12 | 0 | 1 | 1 | 0 | 0 | 0 |
| 13 | 0 | 1 | 1 | 0 | 1 | 0 |
| 14 | 0 | 1 | 1 | 1 | 0 | 1 |
| 15 | 0 | 1 | 1 | 1 | 1 | 0 |
| 16 | 1 | 0 | 0 | 0 | 0 | 1 |
| 17 | 1 | 0 | 0 | 0 | 1 | 0 |
| 18 | 1 | 0 | 0 | 1 | 0 | 0 |
| 19 | 1 | 0 | 0 | 1 | 1 | 0 |
| 20 | 1 | 0 | 1 | 0 | 0 | 0 |
| 21 | 1 | 0 | 1 | 0 | 1 | 0 |
| 22 | 1 | 0 | 1 | 1 | 0 | 0 |
| 23 | 1 | 0 | 1 | 1 | 1 | 1 |

| | | | | | | |
|----|---|---|---|---|---|---|
| 24 | 1 | 1 | 0 | 0 | 0 | 0 |
| 25 | 1 | 1 | 0 | 0 | 1 | 1 |
| 26 | 1 | 1 | 0 | 1 | 0 | 0 |
| 27 | 1 | 1 | 0 | 1 | 1 | 0 |
| 28 | 1 | 1 | 1 | 0 | 0 | 0 |
| 29 | 1 | 1 | 1 | 0 | 1 | 0 |
| 30 | 1 | 1 | 1 | 1 | 0 | 0 |
| 31 | 1 | 1 | 1 | 1 | 1 | 0 |

Sum of products (5,7,14,16,23,25)

$$y = A'B'CD'E + A'B'CDE + A'BCDE' + AB'C'D'E' + AB'CDE + ABC'D'E$$

| | 00101 | 00111 | 01110 | 10000 | 10111 | 11001 |
|--|-------|-------|-------|-------|-------|-------|
|--|-------|-------|-------|-------|-------|-------|

DE

| ABC | 00 | 01 | 11 | 10 |
|-----|----|----|----|----|
| 000 | | | | |
| 001 | | 1 | 1 | |
| 010 | | | | |
| 011 | | | | 1 |
| 100 | 1 | | | |
| 101 | | | 1 | |
| 111 | | | | |
| 110 | | 1 | | |

$$y = A'B'CE + B'CDE + A'BCDE' + AB'C'D'E' + ABC'D'E$$