|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| B1B0  B3B2 | 00 | 01 | 11 | 10 |
| 00 | 1 | 0 | 0 | 0 |
| 01 | 1 | 1 | 0 | 1 |
| 11 | 1 | 1 | 1 | 1 |
| 10 | 1 | 1 | 1 | 1 |

A) B3+B1`B0 +B2~B1+~B2B1 B) b3+~b1~b0 +b2~b1 +b2b1~b0

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| B1B0  B3B2 | 00 | 01 | 11 | 10 |
| 00 | 0 | 0 | 1 | 1 |
| 01 | 1 | 1 | 0 | 1 |
| 11 | 1 | 1 | 1 | 1 |
| 10 | 1 | 1 | 1 | 1 |

C)B3+B2B0+B1B0+~B3~B2 D) ~B3~B2 + ~B3B1B0 +~B2~B1+~ B3~B1~B0

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| B1B0  B3B2 | 00 | 01 | 11 | 10 |
| 00 | 1 | 1 | 1 | 1 |
| 01 | 0 | 1 | 1 | 0 |
| 11 | 1 | 1 | 1 | 1 |
| 10 | 1 | 1 | 1 | 1 |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| B1B0  B3B2 | 00 | 01 | 11 | 10 |
| 00 | 1 | 1 | 1 | 1 |
| 01 | 1 | 0 | 1 | 0 |
| 11 | 0 | 0 | 0 | 0 |
| 10 | 1 | 1 | 0 | 0 |

E) B3B2 +B1~B0 +B1B3 +~B2~B1~B0

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| B1B0  B3B2 | 00 | 01 | 11 | 10 |
| 00 | 1 | 0 | 0 | 1 |
| 01 | 0 | 0 | 0 | 1 |
| 11 | 1 | 1 | 1 | 1 |
| 10 | 1 | 0 | 1 | 1 |

F) B3 +~B2~B1~B0 +B1~B0 + B2~B1B0 + ~B3~B2B1 G) ~B2~B1 + ~B3~B1 +~B3B0 +~B3B2

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| B1B0  B3B2 | 00 | 01 | 11 | 10 |
| 00 | 1 | 0 | 1 | 1 |
| 01 | 0 | 1 | 0 | 1 |
| 11 | 1 | 1 | 1 | 1 |
| 10 | 1 | 1 | 1 | 1 |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| B1B0  B3B2 | 00 | 01 | 11 | 10 |
| 00 | 1 | 1 | 1 | 0 |
| 01 | 1 | 1 | 1 | 1 |
| 11 | 0 | 0 | 0 | 0 |
| 10 | 1 | 1 | 0 | 0 |

H) B3B2 +B3B1

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| B1B0  B3B2 | 00 | 01 | 11 | 10 |
| 00 | 0 | 0 | 0 | 0 |
| 01 | 0 | 0 | 0 | 0 |
| 11 | 1 | 1 | 1 | 1 |
| 10 | 0 | 0 | 1 | 1 |