ABC+AB+AC

=AB(C+1)+AC

=AB+AC

=A(B+C)

Truth Table

|  |  |  |  |
| --- | --- | --- | --- |
| A | B | C | A(B+C) |
| 0 | 0 | 0 | 0 |
| 0 | 0 | 1 | 0 |
| 0 | 1 | 0 | 0 |
| 0 | 1 | 1 | 0 |
| 1 | 0 | 0 | 0 |
| 1 | 0 | 1 | 1 |
| 1 | 1 | 0 | 1 |
| 1 | 1 | 1 | 1 |