STEPHEN SMITH ONIMISI

18/SCI01/088

CSC 202 ASSIGNMENT

PROVE THAT ;

A\*(B+C) = (A\*B)+(A\*C)

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

SINCE THE 7TH AND 8TH COLUMN GIVE THE SAME RESULT, THERFORE

A\*(B+C) = (A\*B)+(A\*C)