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)