OYEFIADE ADEWALE AKEEM

**18/SCI01/077**

**CSC 202 ASSIGNMENT**

**PROVE THAT ;**

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

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **A (i)** | **B (ii)** | **C(iii)** | **(B+C) (iv)** | **(A\*B) (v)** | **(A\*C) (vi)** | **A\*(B+C) (vii)** | **(A\*B)+(B\*C) (viii)** |
| **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 column (vii) equals column (viii) we can conclude that**

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