2016级软件理论基础试卷

# 一、命题逻辑

计算下面公式的真度

(1).(

(2)

(3)

解: (1).(

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 公式 | | (0,0,0) | | (0,0,1) | (0,1,0) | (0,1,1) | (1,0,0) | (1,0,1) |
| ( | | 1 | | 1 | 1 | 1 | 0 | 1 |
| (1,1,0) | (1,1,1) | |
| 1 | 1 | |

其真度为.

(2)

本公式可以先化简为:

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 公式 | | | (0,0,0) | (0,0,1) | (0,1,0) | (0,1,1) | (1,0,0) | (1,0,1) |
|  | | | 0 | 0 | 0 | 1 | 1 | 1 |
| (1,1,0) | (1,1,1) |
| 1 | 1 |

其真度为.

(3)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 公式 | (0,0) | (0,1) | (1,0) | (1,1) |
|  | 1 | 1 | 0 | 1 |

其真度为.

2.证明: