Week 5: Truth Tables

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| A | B | A||B | A&&B | !A&&B | !A||!B | !(A&&B) | !(A||B) |
| TRUE | TRUE | true | true | false | false | false | false |
| FALSE | FALSE | false | false | false | true | true | true |
| TRUE | FALSE | true | false | false | true | true | false |
| FALSE | TRUE | true | false | true | true | true | false |

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| A | B | C | (A&&B)||!C | !(B||C)&&A | !A&&(!B||C) | !B||C||A | C&&A||B | !(A&&B||C) | !(A||B||C) |
| TRUE | TRUE | TRUE | true | false | false | true | true | false | false |
| TRUE | FALSE | FALSE | true | true | false | true | false | true | false |
| FALSE | TRUE | FALSE | true | false | false | false | true | true | false |
| FALSE | FALSE | TRUE | false | false | true | true | false | false | false |
| TRUE | TRUE | FALSE | true | true | false | true | true | false | false |
| FALSE | TRUE | TRUE | false | false | true | true | true | true | false |
| TRUE | FALSE | TRUE | false | false | false | true | true | true | false |
| FALSE | FALSE | FALSE | true | false | true | true | false | true | true |