|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 1.p | ¬p | p→¬p |  |  |
| T | F | F |  |  |
| F | T | T |  |  |
| 2. p | ¬p | p ↔¬p |  |  |
| T | F | F |  |  |
| F | T | F |  |  |
| 3. p | q | p∨q | p⊕(p∨q) |  |
| T | T | T | T |  |
| T | F | T | T |  |
| F | T | T | F |  |
| F | F | F | T |  |
| 4.p | q | p∧q | p∨q | (p∧q)→(p∨q) |
| T | T | T | T | T |
| T | F | F | T | T |
| F | T | F | T | F |
| F | F | F | F | T |
| 5.p | q | q →¬p | p ↔ q | (q →¬p)↔ (p ↔ q) |
| T | T | F | T | F |
| T | F | T | F | F |
| F | T | T | F | F |
| F | F | T | T | T |
| 6.p | q | p ↔ q | p ↔¬q | (p ↔ q)⊕(p ↔¬q) |
| T | T | T | F | T |
| T | F | F | T | T |
| F | T | F | T | T |
| F | F | T | F | T |

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