Lebron James M. Dante

1.False

2.True

3.True

4.False

1.p^q

|  |  |  |
| --- | --- | --- |
| p | q | P^q |
| t | t | t |
| t | f | t |
| f | t | t |
| f | f | f |

2.¬(pvq)

|  |  |  |  |
| --- | --- | --- | --- |
| p | q | pvq | ¬(Pvq) |
| t | t | t | f |
| t | f | t | f |
| f | t | t | f |
| f | f | f | t |

3.(p->)^(¬q)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| p | q | ¬q | p->q | (p->q)^(¬q) |
| t | t | f | t | f |
| t | f | t | f | f |
| f | t | t | t | t |
| f | f | f | t | f |

1. (pvq)←→(¬pvq)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| p | q | pvq | ¬pvq | (pvq)←→(¬pvq) |
| t | t | t | f | f |
| t | f | t | f | f |
| f | t | t | f | f |
| f | f | f | t | f |