Midterm coursework assignment-tendamentals of compoter science:

1. Construct a truth table for ((poq)v(por)) to (7pvqvr). Is this a technology or contradiction?

| P | 9, | (pog) | \ \ \ | (709) | (rag) v (pag) | 70 | 7p Vq, | 7pvqvr | ((pog)v(por)) + D(7pvqvr) |
|---|----|-------|-------|-------|---------------|----|--------|--------|---------------------------|
| 1 | 1 | 0 | 1 | 0 | 0 | 0 | 1 | 1 | 0 |
| 1 | 0 | 0 | 0 | 0 | 0 | O | 0 | 0 | 1 |
| 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 0 | 0 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 1 |

This is a contradiction, as the value for ((pog) v(por)) v (pugur) is not always tree (1) and thus it cannot be a toutology.