**Guía de ejercicios Tablas de Verdad**  
  
1. NOT ( V OR F XOR F OR V OR V OR V XOR F )

NOT ( V XOR F OR V OR V OR V XOR F )

NOT ( V OR V OR V OR V XOR F )

NOT ( V OR V OR V XOR F )

NOT ( V OR V XOR F )

NOT ( V XOR F )

NOT ( V )

**F**

2. F AND F AND F AND F AND NOT( F AND F AND F AND F AND F AND F AND F )

F AND F AND F AND F AND NOT( F AND F AND F AND F AND F AND F )

F AND F AND F AND F AND NOT( F AND F AND F AND F AND F )

F AND F AND F AND F AND NOT( F AND F AND F AND F )

F AND F AND F AND F AND NOT( F AND F AND F )

F AND F AND F AND F AND NOT( F AND F )

F AND F AND F AND F AND NOT( F )

F AND F AND F AND F AND V

F AND F AND V

F AND V  
**F**

3. NOT( F AND F AND V AND V AND NOT( F AND V AND F ) AND V AND NOT( V AND F AND F ) )

NOT( F AND F AND V AND V AND NOT( F AND F ) AND V AND NOT( V AND F AND F ) )

NOT( F AND F AND V AND V AND NOT F AND V AND NOT( V AND F AND F ) )

NOT( F AND F AND V AND V AND NOT F AND V AND NOT( F AND F ) )

NOT( F AND F AND V AND V AND NOT F AND V AND NOT F)

NOT( F AND V AND V AND NOT F AND V AND NOT F )

NOT( F AND NOT F AND V AND NOT F )

NOT( F AND NOT F AND NOT F )

NOT( F AND V AND NOT F )

NOT( F AND NOT F )

NOT( F AND V )

NOT F

**V**  
  
4. NOT( NOT( F AND V XOR F ) AND V XOR F OR V ) AND F XOR V AND F

NOT( NOT( F XOR F ) AND V XOR F OR V ) AND F XOR V AND F

NOT( NOT F AND V XOR F OR V ) AND F XOR V AND F

NOT( NOT F XOR F OR V ) AND F XOR V AND F

NOT( NOT F OR V ) AND F XOR V AND F

NOT( NOT V ) AND F XOR V AND F

NOT F AND F XOR V AND F

NOT F XOR V AND F

NOT F XOR F

NOT F

**V**

5. NOT( NOT( F XOR V XOR V XOR F XOR V XOR F XOR V XOR F AND V AND F AND V AND F ) )

NOT( NOT( F XOR V XOR V XOR F XOR V XOR F XOR V XOR F AND F AND V AND F ) )  
NOT( NOT( F XOR V XOR V XOR F XOR V XOR F XOR V XOR F AND V AND F ) )

NOT( NOT( F XOR V XOR V XOR F XOR V XOR F XOR V XOR V AND V AND F ) )

NOT( NOT( F XOR V XOR V XOR F XOR V XOR F XOR V XOR V AND F ) )

NOT( NOT( F XOR V XOR V XOR F XOR V XOR F XOR V XOR F) )

NOT( NOT( V XOR V XOR F XOR V XOR F XOR V XOR F) )

NOT( NOT( F XOR F XOR V XOR F XOR V XOR F) )

NOT( NOT( F XOR V XOR F XOR V XOR F) )

NOT( NOT( V XOR F XOR V XOR F) )

NOT( NOT( F XOR V XOR F) )

NOT( NOT( V XOR F) )

NOT( NOT F )

NOT V

**F**

6. V AND F XOR V OR NOT( NOT( F AND V AND F AND V AND NOT( NOT( V AND V AND V ) ) AND V AND F OR V AND F ) AND V )

V AND F XOR V OR NOT( NOT( F AND V AND F AND V AND NOT( NOT( V AND V ) ) AND V AND F OR V AND F ) AND V )

V AND F XOR V OR NOT( NOT( F AND V AND F AND V AND NOT( NOT V ) AND V AND F OR V AND F ) AND V )

V AND F XOR V OR NOT( NOT( F AND V AND F AND V AND NOT F AND V AND F OR V AND F ) AND V )

V AND F XOR V OR NOT( NOT( F AND F AND V AND NOT F AND V AND F OR V AND F ) AND V )

V AND F XOR V OR NOT( NOT( F AND V AND NOT F AND V AND F OR V AND F ) AND V )

V AND F XOR V OR NOT( NOT( F AND NOT F AND V AND F OR V AND F ) AND V )

V AND F XOR V OR NOT( NOT( F AND NOT F AND F OR V AND F ) AND V )

V AND F XOR V OR NOT( NOT( F AND NOT F OR V AND F ) AND V )

V AND F XOR V OR NOT( NOT( F AND NOT F OR F ) AND V )

V AND F XOR V OR NOT( NOT( F AND NOT F ) AND V )

V AND F XOR V OR NOT( NOT( F AND V ) AND V )

V AND F XOR V OR NOT( NOT F AND V )

V AND F XOR V OR NOT( NOT F )

V AND F XOR V OR NOT V

F XOR V OR NOT V

V OR NOT V

V OR F

**V**

7. V AND NOT( V AND F OR V AND F ) OR NOT( F XOR V OR F AND V OR F ) XOR NOT( F AND V OR F ) OR NOT( F OR V OR F XOR V ) AND V AND F OR NOT( V AND F AND V AND F )

V AND NOT( F OR V AND F ) OR NOT( F XOR V OR F AND V OR F ) XOR NOT( F AND V OR F ) OR NOT( F OR V OR F XOR V ) AND V AND F OR NOT( V AND F AND V AND F )  
V AND NOT( F OR V AND F ) OR NOT( F XOR V OR F AND V OR F ) XOR NOT( F OR F ) OR NOT( F OR V OR F XOR V ) AND V AND F OR NOT( V AND F AND V AND F )

V AND NOT( F OR V AND F ) OR NOT( F XOR V OR F AND V OR F ) XOR NOT( F OR F ) OR NOT( F OR V OR F XOR V ) AND V AND F OR NOT( F AND V AND F )  
V AND NOT( F OR V AND F ) OR NOT( F XOR V OR F AND V OR F ) XOR NOT( F OR F ) OR NOT( F OR V OR F XOR V ) AND V AND F OR NOT( F AND F )

V AND NOT( F OR V AND F ) OR NOT( F XOR V OR F AND V OR F ) XOR NOT( F OR F ) OR NOT( F OR V OR F XOR V ) AND V AND F OR NOT F

V AND NOT( F OR F ) OR NOT( F XOR V OR F AND V OR F ) XOR NOT( F OR F ) OR NOT( F OR V OR F XOR V ) AND V AND F OR NOT F

V AND NOT( F OR F ) OR NOT( F XOR V OR F OR F ) XOR NOT( F OR F ) OR NOT( F OR V OR F XOR V ) AND V AND F OR NOT F

V AND NOT F OR NOT( F XOR V OR F OR F ) XOR NOT( F OR F ) OR NOT( F OR V OR F XOR V ) AND V AND F OR NOT F

V AND NOT F OR NOT( V OR F OR F ) XOR NOT( F OR F ) OR NOT( F OR V OR F XOR V ) AND V AND F OR NOT F

V AND NOT F OR NOT( V OR F ) XOR NOT( F OR F ) OR NOT( F OR V OR F XOR V ) AND V AND F OR NOT F

V AND NOT F OR NOT V XOR NOT( F OR F ) OR NOT( F OR V OR F XOR V ) AND V AND F OR NOT F

V AND NOT F OR NOT V XOR NOT F OR NOT( F OR V OR F XOR V ) AND V AND F OR NOT F

V AND NOT F OR NOT V XOR NOT F OR NOT( V OR F XOR V ) AND V AND F OR NOT F

V AND NOT F OR NOT V XOR NOT F OR NOT( V XOR V ) AND V AND F OR NOT F

V AND NOT F OR NOT V XOR NOT F OR NOT F AND V AND F OR NOT F

V AND NOT F OR NOT V XOR NOT F OR NOT F AND F OR NOT F

V AND NOT F OR NOT V XOR NOT F OR NOT F OR NOT F  
V AND V OR NOT V XOR NOT F OR NOT F OR NOT F

V OR NOT V XOR NOT F OR NOT F OR NOT F

V OR F XOR NOT F OR NOT F OR NOT F

V XOR NOT F OR NOT F OR NOT F

V XOR V OR NOT F OR NOT F

V OR NOT F OR NOT F

V OR V OR NOT F

V OR NOT F

V OR V

**V**  
  
8. NOT( NOT( V OR F OR V AND V XOR V ) AND F AND V AND F OR NOT( NOT( V OR F OR V AND V XOR V AND F AND V XOR F ) ) OR NOT( V OR F OR V AND V XOR V AND F AND V XOR F ) )

NOT( NOT( V OR F OR V XOR V ) AND F AND V AND F OR NOT( NOT( V OR F OR V AND V XOR V AND F AND V XOR F ) ) OR NOT( V OR F OR V AND V XOR V AND F AND V XOR F ) )

NOT( NOT( V OR F OR V XOR V ) AND F AND V AND F OR NOT( NOT( V OR F OR V XOR V AND F AND V XOR F ) ) OR NOT( V OR F OR V AND V XOR V AND F AND V XOR F ) )

NOT( NOT( V OR F OR V XOR V ) AND F AND V AND F OR NOT( NOT( V OR F OR V XOR F AND V XOR F ) ) OR NOT( V OR F OR V AND V XOR V AND F AND V XOR F ) )

NOT( NOT( V OR F OR V XOR V ) AND F AND V AND F OR NOT( NOT( V OR F OR V XOR F XOR F ) ) OR NOT( V OR F OR V AND V XOR V AND F AND V XOR F ) )

NOT( NOT( V OR F OR V XOR V ) AND F AND V AND F OR NOT( NOT( V OR F OR V XOR F XOR F ) ) OR NOT( V OR F OR V XOR V AND F AND V XOR F ) )

NOT( NOT( V OR F OR V XOR V ) AND F AND V AND F OR NOT( NOT( V OR F OR V XOR F XOR F ) ) OR NOT( V OR F OR V XOR F AND V XOR F ) )

NOT( NOT( V OR F OR V XOR V ) AND F AND V AND F OR NOT( NOT( V OR F OR V XOR F XOR F ) ) OR NOT( V OR F OR V XOR F XOR F ) )

NOT( NOT( V OR V XOR V ) AND F AND V AND F OR NOT( NOT( V OR F OR V XOR F XOR F ) ) OR NOT( V OR F OR V XOR F XOR F ) )

NOT( NOT( V XOR V ) AND F AND V AND F OR NOT( NOT( V OR F OR V XOR F XOR F ) ) OR NOT( V OR F OR V XOR F XOR F ) )

NOT( NOT F) AND F AND V AND F OR NOT( NOT( V OR F OR V XOR F XOR F ) ) OR NOT( V OR F OR V XOR F XOR F ) )

NOT V AND F AND V AND F OR NOT( NOT( V OR F OR V XOR F XOR F ) ) OR NOT( V OR F OR V XOR F XOR F ) )

NOT V AND F AND V AND F OR NOT( NOT( V OR V XOR F XOR F ) ) OR NOT( V OR F OR V XOR F XOR F ) )  
NOT V AND F AND V AND F OR NOT( NOT( V XOR F XOR F ) ) OR NOT( V OR F OR V XOR F XOR F ) )

NOT V AND F AND V AND F OR NOT( NOT( V XOR F ) ) OR NOT( V OR F OR V XOR F XOR F ) )

NOT V AND F AND V AND F OR NOT( NOT V ) OR NOT( V OR F OR V XOR F XOR F ) )

NOT V AND F AND V AND F OR NOT( NOT V ) OR NOT( V OR V XOR F XOR F ) )

NOT V AND F AND V AND F OR NOT( NOT V ) OR NOT( V XOR F XOR F ) )

NOT V AND F AND V AND F OR NOT( NOT V ) OR NOT( V XOR F ) )

NOT V AND F AND V AND F OR NOT( NOT V ) OR NOT V

NOT V AND F AND V AND F OR NOT F OR NOT V  
NOT F AND V AND F OR NOT F OR NOT V

NOT F AND F OR NOT F OR NOT V

NOT F OR NOT F OR NOT V

V OR NOT F OR NOT V

V OR V OR NOT V

V OR NOT V  
V OR F

**V**  
9. NOT( V AND F AND V AND F OR NOT( V AND F OR V XOR V AND F XOR V OR F ) OR NOT( V OR F OR V AND V XOR V AND F AND V XOR F ) )

NOT( V AND F AND V AND F OR NOT( F OR V XOR V AND F XOR V OR F ) OR NOT( V OR F OR V AND V XOR V AND F AND V XOR F ) )

NOT( V AND F AND V AND F OR NOT( F OR V XOR F XOR V OR F ) OR NOT( V OR F OR V AND V XOR V AND F AND V XOR F ) )

NOT( V AND F AND V AND F OR NOT( F OR V XOR F XOR V OR F ) OR NOT( V OR F OR V XOR V AND F AND V XOR F ) )

NOT( V AND F AND V AND F OR NOT( F OR V XOR F XOR V OR F ) OR NOT( V OR F OR V XOR F AND V XOR F ) )

NOT( V AND F AND V AND F OR NOT( F OR V XOR F XOR V OR F ) OR NOT( V OR F OR V XOR F XOR F ) )

NOT( V AND F AND V AND F OR NOT( V XOR F XOR V OR F ) OR NOT( V OR F OR V XOR F XOR F ) )

NOT( V AND F AND V AND F OR NOT( V XOR V OR F ) OR NOT( V OR F OR V XOR F XOR F ) )

NOT( V AND F AND V AND F OR NOT( F OR F ) OR NOT( V OR F OR V XOR F XOR F ) )

NOT( V AND F AND V AND F OR NOT F OR NOT( V OR F OR V XOR F XOR F ) )  
NOT( V AND F AND V AND F OR NOT F OR NOT( V OR V XOR F XOR F ) )

NOT( V AND F AND V AND F OR NOT F OR NOT( V XOR F XOR F ) )

NOT( V AND F AND V AND F OR NOT F OR NOT( V XOR F ) )

NOT( V AND F AND V AND F OR NOT F OR NOT V )

NOT( F AND V AND F OR NOT F OR NOT V )

NOT( F AND F OR NOT F OR NOT V )

NOT( F OR NOT F OR NOT V )

NOT( F OR V OR NOT V )

NOT( V OR NOT V )

NOT( V OR F)

NOT V  
**F**

10. NOT( NOT( NOT( NOT( V OR F XOR V AND F OR V AND F ) OR NOT( V AND F OR V ) OR F ) AND V AND F ) OR NOT( V AND F OR NOT(V AND F OR V XOR F) ) )

NOT( NOT( NOT( NOT( V OR F XOR F OR V AND F ) OR NOT( V AND F OR V ) OR F ) AND V AND F ) OR NOT( V AND F OR NOT(V AND F OR V XOR F) ) )

NOT( NOT( NOT( NOT( V OR F XOR F OR F ) OR NOT( V AND F OR V ) OR F ) AND V AND F ) OR NOT( V AND F OR NOT(V AND F OR V XOR F) ) )

NOT( NOT( NOT( NOT( V OR F XOR F OR F ) OR NOT( F OR V ) OR F ) AND V AND F ) OR NOT( V AND F OR NOT(V AND F OR V XOR F) ) )

NOT( NOT( NOT( NOT( V OR F XOR F OR F ) OR NOT V OR F ) AND V AND F ) OR NOT( V AND F OR NOT(V AND F OR V XOR F) ) )

NOT( NOT( NOT( NOT( V XOR F OR F ) OR NOT V OR F ) AND V AND F ) OR NOT( V AND F OR NOT(V AND F OR V XOR F) ) )

NOT( NOT( NOT( NOT( V OR F ) OR NOT V OR F ) AND V AND F ) OR NOT( V AND F OR NOT(V AND F OR V XOR F) ) )

NOT( NOT( NOT( NOT V OR NOT V OR F ) AND V AND F ) OR NOT( V AND F OR NOT(V AND F OR V XOR F) ) )

NOT( NOT( NOT( NOT V OR NOT V OR F ) AND V AND F ) OR NOT( V AND F OR NOT(F OR V XOR F) ) )

NOT( NOT( NOT( F OR NOT V OR F ) AND V AND F ) OR NOT( V AND F OR NOT(F OR V XOR F) ) )

NOT( NOT( NOT( F OR F OR F ) AND V AND F ) OR NOT( V AND F OR NOT(F OR V XOR F) ) )

NOT( NOT( NOT( F OR F ) AND V AND F ) OR NOT( V AND F OR NOT(F OR V XOR F) ) )

NOT( NOT( NOT F AND V AND F ) OR NOT( V AND F OR NOT(F OR V XOR F) ) )

NOT( NOT( NOT F AND V AND F ) OR NOT( V AND F OR NOT(V XOR F) ) )

NOT( NOT( NOT F AND V AND F ) OR NOT( V AND F OR NOT V ) )

NOT( NOT( NOT F AND F ) OR NOT( V AND F OR NOT V ) )

NOT( NOT( NOT F ) OR NOT( V AND F OR NOT V ) )

NOT( NOT V OR NOT( V AND F OR NOT V ) )

NOT( NOT V OR NOT( F OR NOT V ) )

NOT( NOT V OR NOT( F OR F ) )

NOT( NOT V OR NOT F )

NOT( F OR NOT F )

NOT( F OR V )

NOT V

**F**