DUE DATE
Wednesday 2/13/08 -- IN CLASS

Homework:
Show all Truth Tables

1. \( R = AB + CB \)  
   If \( A = 1, B = 0, C = 1 \), then what is \( R \)?

2. \( R = (A+B) + (AB) \)  
   If \( A = 1, B = 0 \), then what is \( R \)?

3. \( R = A(C+ \sim B) \)  
   If \( A = 1, B = 0, C = 1 \), then what is \( R \)?

4. \( R = (X+Y)(Z+ \sim X) \)  
   If \( X = 0, Y = 0, Z = 1 \), then what is \( R \)?

5. \( R = \sim A + BC + C \)  
   If \( A = 1, B = 0, C = 1 \), then what is \( R \)?
   NOTE: Order of operations REALLY matters here!

Extra Credit
\( R = A \cdot \sim B(\sim(C+A)+D) \)  
If \( A = 0, B = 0, C = 1, D = 1 \), then what is \( R \)?
Hint the truth table in this example has 4 columns and 16 rows.