

**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.