

Homework 3

Draw the logical diagrams for the following Boolean expressions:

(a) $Y = A'B' + B(A+C).$

(b) $Y = BC + AC'.$ **(c)** $Y = A + CD.$ **(d)** $Y = (A+B)(C'+D).$

Problem: 1-34

Assume a 3-input AND gate with output F and a 3-input OR gate with G output. Show the signals of the outputs F and G as functions of the three inputs ABC. Use all 8 possible combinations of ABC.