***Name*:** Eyad Mohamed Abdelmohsen Ghanem

***Homework 3***

**Draw the logical diagrams for the following Boolean expressions:**

1. **Y = A`B` + B(A+C)**

A screenshot of a computer

Description automatically generated

1. **Y = BC + AC`**

A black line drawing of a circuit

Description automatically generated

1. **Y = A + CD**

A black and white drawing of a tractor

Description automatically generated

1. **Y = (A+B)(C`D)**

A diagram of a circuit

Description automatically generated

**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.**

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