QUIZ 3

1. How does the microcontroller "understand" the Sharp GP2D12's output voltage?
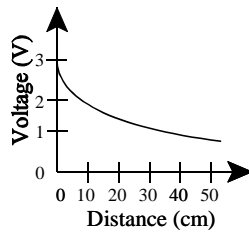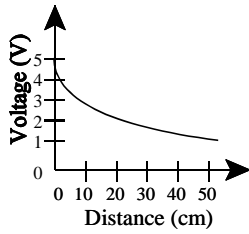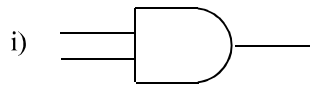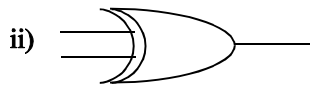
2. Which of the following graphs most correctly shows the Sharp GP2D12's output voltage versus distance?
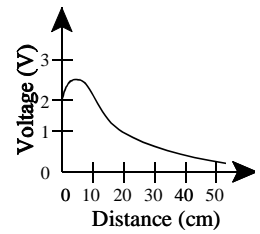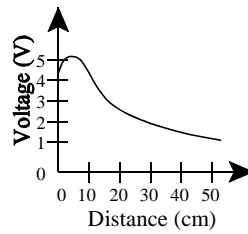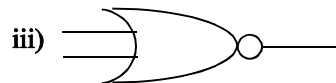

3. Construct a digital circuit that implements the following boolean equation.
$$F = A\overline{B} + \overline{A}B$$

4. Match the following digital logic gates with their names.

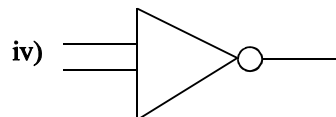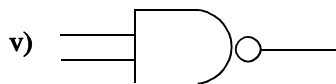i)   a) NAND

ii)   b) Inverter

iii)   c) XOR

iv)   d) AND

v)   e) NOR

5. Fill in the truth table for the following digital circuit.

A	B	C	D