Student Honor Pledge:
All work submitted is completed by me directly without the use of any unauthorized resources or assistance
Initials: _____

Quiz 2

(October 12th @ 5:30 pm)

PROBLEM 1 (40 PTS)

- Complete the following table:

REPRESENTATION			
Decimal	**Sign-and-magnitude**	**1's complement**	**2's complement**
		1111	
		01000	
	010111		
-10			

- Convert the following decimal number to its 2's complement representation: -10.25 (5 pts)

PROBLEM 2 (20 PTS)

- Perform the following operation in the 2's complement system, i.e., provide the summands and the result in 2's complement representation (indicate the carries). Use the minimum number of bits to represent both the summands and the result so that the overflow bit is 0.
  - ✓ -17 + 10

PROBLEM 3 (40 PTS)

- Complete the timing diagram of the circuit shown below: $y = y_3 y_2 y_1 y_0$, $x = x_1 x_0$