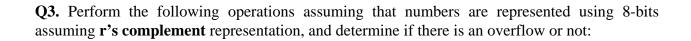
Name: Id#

COE 200, Term 041 Fundamentals of Computer Engineering

Quiz# 1
Date: Monday, Oct 4 (8:00-9:00AM)
Q1. Represent the following numbers in binary and hexadecimal . Use as many bits as needed, and approximate the fraction to 4 <u>binary</u> digits:
i. (120.3) ₁₀
ii. (32.3) ₅
Q2. Assume that an 8-bit register contains the following number 11010100. Determine the content of the register assuming that it represents:
i. an unsigned number.
ii. a 2's complement signed number.



Q4. Determine, in <u>binary</u> and <u>decimal</u>, the *smallest (negative)* number and the *largest (positive)* number that can be stored using the 2's complement notation, assuming *6-bit representation*.