1. Convert 37.26 (in base 10) to it's equivalent ...
 a. Base 16 real number
 b. Base 2 real number

Note:
You MUST show the steps in details for the conversions above.

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2. Explain in details how 37.26 (in base 10) is saved in Excess_127 memory unit.

Note:
You MUST show all the steps in your calculation.

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3. Normalize 101.1010000 (base 2) and show the Shifter and Mantissa for the same.

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4. Show in detailed steps the result of the following calculation as done in binary through Arithmatic Logic Operation inside CPU:

32 - 25 = ?

Note

The numbers are in Base 10 format. Both numbers are stored in Memory in their 2's Complement format.

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5. What's the output from:
    (10001110) XOR (10111001)

Show the steps.

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