3E7

Number base conversion and binary arithmetic

Please try to do these problems yourself. Make note of what you don't understand how to do.

| . Convert 201 base10 to 8-bit binary (1 Point) | |
|--|--------------------|
| 11001001 | |
| . Convert 201 base10 to base 3 using the division method ddddd) (1 Point) | od (5-digit answer |
| 21110 | |
| . Convert 11 1110 0111 binary to hexadecimal | |

4. Convert C0FE base16 to binary (answer with space between 4 digits: dddd dddd dddd dddd) (1 Point)

1100 0000 1111 1110

| you | npute 1011 0101 + 0101 1011 in regular binary (not sign-magnitude). Write Ir answer in 8-bit binary. Point) |
|------|---|
| 10 | 0001 0000 |
| | here overflow in the previous question? |
| | Point) Yes |
| | No |
| bina | mpute 0010 1101 - 0001 0111 (regular binary) Write your answer in 8-bit ary. Point) |
| 00 | 001 0110 |
| | nvert 105 base10 to 8-bit binary representation Point) |
| 01 | 10 1001 |
| | |
| | nvert -105 base10 to 8-bit signed magnitude representation Point) |
| 11 | 110 1001 |

| 001 0111 | | | |
|----------|--|--|--|
|----------|--|--|--|

10. Convert -105 base10 to 8-bit 2's complement representation

11. Convert 105 base10 to excess-M representation, (use the lowest possible M) (1 Point)

| 0110 0010 | | | |
|-----------|--|--|--|
| | | | |

- 12. What areas do you think you need more practice on? (1 Point)
 - base conversion
 - binary arithmetic
 - 2's complement representation
 - excess-M representation
 - signed-magnitude representation

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