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)
	311
	Convert 201 base10 to base 3 using the division method (5-digit answer ddddd) (1 Point)
	21110
	Convert 11 1110 0111 binary to hexadecimal (1 Point)
	3E7

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

1100 0000 1111 1110

5. Compute 1011 0101 + 0101 1011 in regular binary (not sign-magnitude). Write your answer in 8-bit binary. (1 Point)
0001 0000
6. Is there overflow in the previous question? (1 Point)
Yes
No
7. Compute 0010 1101 - 0001 0111 (regular binary) Write your answer in 8-bit binary. (1 Point)
0000 0000
8. Convert 105 base10 to 8-bit binary representation (1 Point)
0110 1001
9. Convert -105 base10 to 8-bit signed magnitude representation (1 Point)
0110 1001

001 0111						
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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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