Number base conversion and binary ² arithmetic

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

* This form will record your name, please fill your name.

Pituchai Mitpaldee

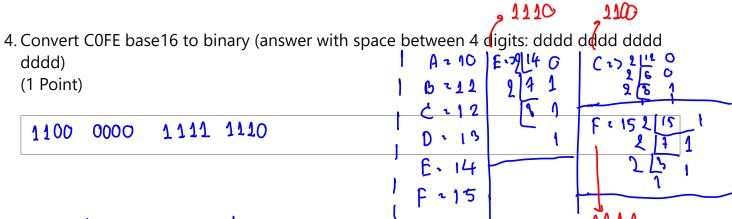
1. Convert 201 base10 to 8-bit binary (1 Point)

11001001

2. Convert 201 base10 to base 3 using the division method (5-digit answer ddddd) (1 Point) 2 1110

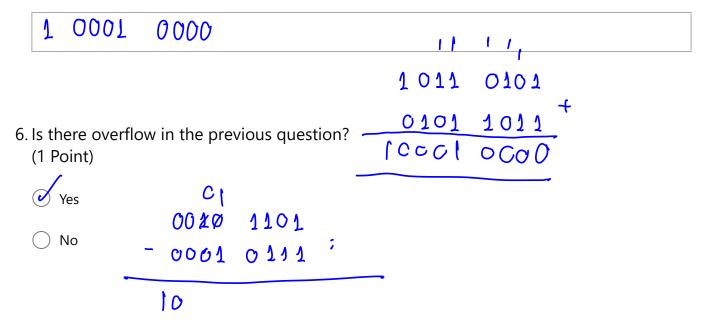
3. Convert 11 111 0 0111 binary to hexadecimal (1 Point)

3 E 7

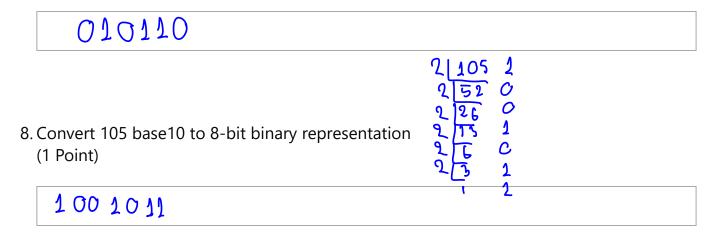


5. Compute 1011 0101 + 0101 1011 in regular binary (not sign-magnitude). Write your answer in 8-bit binary.

(1 Point)



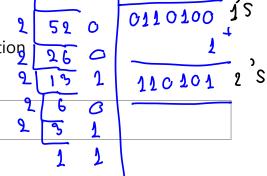
7. Compute 0010 1101 - 0001 0111 (regular binary) Write your answer in 8-bit binary. (1 Point)



9. Convert -105 base10 to 8-bit signed magnitude representation (1 Point)

-1101001

10. Convert -105 base10 to 8-bit 2's complement representation (1 Point)



105 1

1001011

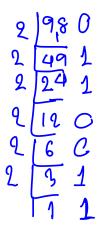
105-72 98

110101

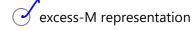
11. Convert 105 base10 to excess-M representation, (use the lowest possible M)
(1 Point)

110011

12. What areas do you think you need more practice on? (1 Point)



- base conversion
- binary arithmetic
- 2's complement representation





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