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Prof. Simina Fluture
CSCI 240: Computer Organization and Assembly Language
Extra Credit
January 4, 2023 1. (a) 41,0 -1 ? 5 = (1315) (c) 41,0 > ? 16 = 29,16 2. 5 - 53 = (+5) + (-53)

+5 -> 101 SE 0000 0101

$$53 = 32 + 16 + 4 + 1 \rightarrow 110101$$

$$+ 53 \rightarrow 0110101$$

$$- 53 \rightarrow 1001011$$

$$+ 0000 0101$$

$$+ 1100 1011$$

$$+ 1100 1000 = ? = -48$$

$$0011 0000 = 148 s0$$

$$3. -13 - 45 = (-13) + (-45)$$

$$13 \rightarrow 1101$$

$$+ 13 \rightarrow 01101$$

$$45 = 32 + 8 + 4 + 1 \rightarrow 101101$$

$$45 \rightarrow 101011$$

$$45 \rightarrow 101011$$

$$45 \rightarrow 101011$$

$$+ 1101 0011$$

$$+ 1101 0011$$

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