task number one

consider the following numbers

sixteen

negative twenty five

one hundred and twenty seven

negative one hundred and twenty seven

negative one hundred and twenty eight

try to represent the said numbers using the following signed numeric approaches

eight bits two's complement approach

eight bits sign magnitude approach

task number two

consider a system which uses eight bits to represent signed numbers assume that the system uses the two's complement approach try to determine the number that each of the following patterns might get regarded as representing

1111 1111

1111 1110

1111 1100

1111 1000

1000 0000

task number three

consider the pattern 1001

try to determine the number that the said pattern might get regarded as representing in the following cases

- four bits unsigned approach is being used
- four bits two's complement approach is being used
- four bits sign magnitude approach is being used

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task number four
    consider a system which uses four bits to represent signed numbers
    assume that the system uses two's complement approach
    try to compute the following
        0001+1111
        0011+1111
        0011+1110
        0011+1101
        0011+1100
        1100+0001
        0111+0001
        1000+1000
task number five
    consider the following numeric approaches
        eight bits signed integers
        sixteen bits signed integers
        thirty two bits signed integers
        sixty four bits signed integers
    let the above approaches use two's complement approach to represent numbers
    try to determine the range of values that might get represented by each
    of the above approaches
task number six
    consider a numeric system which uses three symbols
    the said symbols are \{0, 1, 2\}
    try to compute the following
    11011 + 22010
    111 x 111
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22 x 12