3. Convert -11 to binary using 8-bit, 16-bit, 32-bit and 64-bit two's complement notations. Have you encountered any of the values during the previous problems, and if so, where? Explain the reason the value coincide.

a) to binary

$-11 \mid 2$

$1 \quad 5 \mid 2$

$\uparrow \quad 1 \quad 2 \mid 2$

$0 \quad 1$

-1011

b) Flip the bits

-1011

-0100

c) Add one

$-0100 \; {}^{+1}$

-0101

Computers only have bits and therefore the model has to be such that does not rely on other symbols. (-)