Problem 12. (10 points):

Consider a **6-bit** two's complement representation. Fill in the empty boxes in the following table:

Number	Decimal Representation	Binary Representation
Zero	0	00 0000
n/a	-1	11 1111
n/a	5	00 0101
n/a	-10	11 0110
n/a	26	01 1010
n/a	-26	10 0110
TMax	31	01 1111
TMin	-32	10 0000
TMax+TMax	-2	11 1110
TMin+TMin	0	00 0000
TMin+1	-31	10 0001
TMin-1	31	01 1111
TMax+1	-32	10 0000
$-$TMax	-31	10 0001
$-$TMin	-32	10 0000