- 1) S/M =-23, 1'sC = -8, 2'sC = -9, neg.bitstr = 010111
- 2) S/M = 000000 and 100000, 1'sC = 000000 and 111111, 2'sC = 000000 and 000000.
- 3) $S/M = 1111111 = -62_{10}$, $1'sC = 100000 = -62_{10}$, $2'sC = 100001 = -62_{10}$
- 4) Yes, because we have two negations happening so the sign changes.
- 5) = 73, no because it is unsigned everything is positive and no sign change occurs.
- 6) = 47
- 7) = -63
- 8) Signed magnitude => -13+18=5
- 9) 001100+010010=011110
- $10)\ 001101 011110 = 001101 + (-011110) = 001101 + 110011 = 101100 = -(010001) = -17$
- 11) -011001-000111=-100000
- 12) 011000+001010=1+100000=34 overflow on 32bit!