Encoding HW

A) stide 48: Iff most sig bit is 1,3
Heren decimal value is neg. That's all.

1

3

B 0110 0011 = (-1) (64+32+2+1) = 99

 $1011 \quad 0010 = (-1)'(32+16+2)$ = -50

 $1111 \quad 6011 = (-1)'(64+32+16+2+1)$ = -115

 $6101 0011 = (-1)^{\circ}(64+16+2+1)$ = 83

63 = 32+16+8+4+2+1 = 011111

-92=-1(64+16+8+4)=11011100

100 = 64+32+4 = 01100100

-112 = -1(64+32+16) = 11110000

[PART 1]

Encodins HW

A) 511de 49. Iff most sig bit is 1, then decinch have is neg. If it is 0, then just add. If it is 1, then add value of the rest compenented.

58 = 32 + 16 + 8 + 2 = 60111010 $-39 = -(\sim(32 + 4 + 2 + 1)) = 11011000$ 1(7 = 64 + 32 + 16 + 4 + 1) = 0111010 $-75 = -(\sim(64 + 8 + 2 + 1)) = 10110100$

[PART]

- A) Slide 51. To find neg, compenent the binery value and add 1. You can also we the scan method.
- B) 1111 1101 = -128+64+32+16+8+4+1 = -3

$$0611 \ 0100 = 32 + 16 + 4$$

$$= 52$$

$$-99 = -125 + 16 + 8 + 4 + 1$$

$$= 1001 1101$$

$$=64+32+4+1$$
 $=01100101$

$$-123 = -125 + 4 + 1$$
$$= 1000 0 0 101$$

[PAPT 3]