a) opcode - 6 bits

re - 5 bits

re - 5 bits

immediate - 16 bits

SW \$t1 , 32 (\$t2) => 0 pc. 32 = 101011

Hexalecimal = 45240020

6

i) eprode - 4 bits - 101011 = 5w

(4 - 5 bits - 01000 = \$8 = \$to

(4 - 5 bits - 10000 = \$14 = \$50

Immediate - 0000 0000 0000 0000 0010 = 2

mips instruction = sw \$to, 2 (\$00)

ii) if # is a 2's complement signal categor it can be converted to a descent directly. The first bit or I, which makes the deviant a regular number.

signal integer equivalent = -/391460350