CS51 – Homework #6

Convert the given MIPS instruction it to its binary and hex representations by doing the following:

- On first line, type registers with dollar signs and constants in decimal
- On second line, type register numbers and constants in decimal
- On third line, convert all entries from decimal to binary
- On fourth line, convert binary to hex.

1. `sw $t2, 20($s4)`

op	rs	rt	const/addr
sw			
43			
101011			
Hex:			

2. Assume we have the following:

t0	0000 0000 0000 0000 0000 0000 0011 1011	= 59
t1	0000 0000 0000 0000 0000 0000 1011 1011	= 187

Find the value of $t2 and $t3 in binary and decimal after each of the following instructions are executed:

`sll $t2, $t0, 4`

t2		

`srl $t3, $t1, 5`

t3		

3. Given the following, find the binary results of the MIPS instructions:

t0	0000 0000 1100 0110 1010 1110 0011 1110
t1	0000 0000 0110 1111 0111 1101 1000 0001

`and $t2, $t0, $t1`

t2	

`or $t3, $t0, $t1`

t3	

`nor $t4, $t0, $zero`

t4	