CS220 – Computer Organization

Assignment #2

1. Detail the memory operations needed to fetch and execute the assembly language instruction

sub x, y, z

1. List the six steps of the instruction fetch and execute cycle. Identify those steps that require a memory access for an arithmetic instruction.
2. List the six steps of the instruction fetch and execute cycle. Identify those steps that require a memory access for a control instruction.
3. Briefly explain why the MIPS performance number is not necessarily a good measure of performance.