Last name: ..... First name: ..... Group: .....

ANSWER SHEET TO BE HANDED IN

Exercise 1

Instruction	Memory	Register
Example	`$005000  54 AF [00 40] E7 21 48 C0`	A0 = $00005004 A1 = $0000500C
Example	`$005008  C9 10 11 C8 D4 36 [FF] 88`	No change
`MOVE.W #18,-6(A2)`	`$005008  C9 10 [00 12] D4 36 1F 88`	No change
`MOVE.W $5004,3(A0,D0.W)`	`$005008  C9 10 [E7 21] D4 36 1F 88`	No change
`MOVE.B 5(A1),$18(A1,D1.L)`	`$005008  C9 10 11 C8 D4 36 1F [36]`	No change
`MOVE.L -$8(A1),-1(A2,D2.W)`	`$005008  C9 10 11 C8 [54 AF 18 B9]`	No change

Exercise 2

Operation	Size (bits)	Missing Number (hexadecimal)	N	Z	V	C
`$7F + $?`	8	**$01**	1	0	1	0
`$98BD + $?`	16	**$6743**	0	1	0	1
`$98BD + $?`	32	**$80000000**	1	0	0	0

Exercise 3

Values of registers after the execution of the program. **Use the 32-bit hexadecimal representation.**	
D1 = $00000001	**D3** = $00002206
D2 = $00000022	**D4** = $0000000B

Exercise 4

```
CopyInc     movem.l d0/a1/a2,-(a7)

\loop       move.b  (a1)+,(a2)+
            subq.l  #1,d0
            bne     \loop

            movem.l (a7)+,d0/a1/a2
            rts
```

```
CopyDec     move.l  d0,-(a7)

            adda.l  d0,a1
            adda.l  d0,a2

\loop       move.b  -(a1),-(a2)
            subq.l  #1,d0
            bne     \loop

            move.l (a7)+,d0
            rts
```

```
Copy        tst.l   d0
            beq     \quit

            cmpa.l  a1,a2
            beq     \quit
            blo     \inc

\dec        jsr     CopyDec
            rts

\inc        jsr     CopyInc
\quit       rts
```