Guião Aula 1

1 – c) x = 2, $t1 = 0x0000000c

     x = 3, $t1 = 0x0000000e

     x = 4, $t1 = 0x00000010

     x = 5, $t1 = 0x00000012

d)

Endereço de Memória	Código Máquina	Instrução
0x00400050	0x34080003	ori $t0, $0, 3
0x00400054	0x34080008	ori $t2, $0, 8
0x00400058	0x01084820	add $t1,$t0,$t0
0x0040005c	0x012a4820	add $t1,$t1,$t2
0x00400060	0x03e00008	jr $ra

e)

PC	Instrução	$t0	$t1	$t2
0x00400050	ori $t0, $0, 3	0x00000000	0x00000000	0x00000000
0x00400054	ori $t2, $0, 8	0x00000003	0x00000000	0x00000000
0x00400058	add $t1,$t0,$t0	0x00000003	0x00000000	0x00000008
0x0040005c	add $t1,$t1,$t2	0x00000003	0x00000006	0x00000008
0x00400060	jr $ra	0x00000003	0x0000000e	0x00000008

2 – a) x = 2, $t1 = 0xfffffffc

     x = 3, $t1 = 0xfffffffe

     x = 4, $t1 = 0x00000000

     x = 5, $t1 = 0x00000002

b)

PC	Instrução	$t0	$t1	$t2
0x00400050	ori $t0, $0, 3	0x00000000	0x00000000	0x00000000
0x00400054	ori $t2, $0, 8	0x00000003	0x00000000	0x00000000
0x00400058	add $t1,$t0,$t0	0x00000003	0x00000000	0x00000008
0x0040005c	sub $t1,$t1,$t2	0x00000003	0x00000006	0x00000008
0x00400060	jr $ra	0x00000003	0xfffffffe	0x00000008

3 – b) x = 2, int10 = - 4

     x = 3, int10 = - 2

     x = 4, int10 = 0

     x = 5, int10 = 2

c) x = 2, int16 = 0xfffffffc

   x = 3, int16 = 0xfffffffe

   x = 4, int16 = 0x00000000

   x = 5, int16 = 0x00000002

d) x = 2, int16 = 4294967292

   x = 3, int16 = 4294967294

   x = 4, int16 = 0

   x = 5, int16 = 2