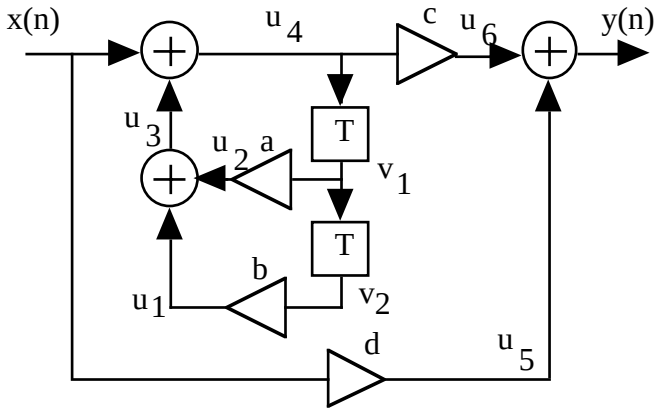
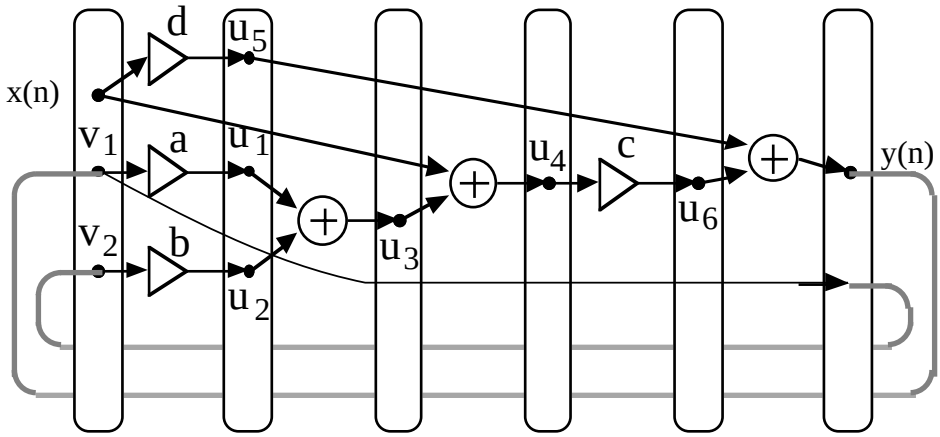
7.19 a) Assign names to all nods.





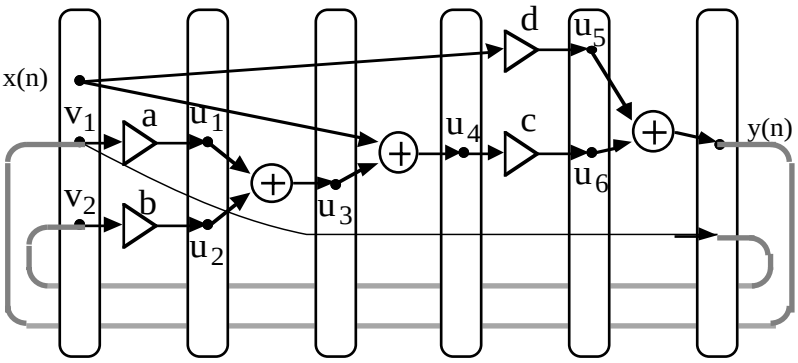
b)

$u_1 := a\ v_1(n)$
$u_2 := b\ v_2(n)$
$u_5 := d\ x(n)$
$u_3 := u_1 + u_2$
$u_4 := x(n) + u_3$
$u_6 := c\ u_4$
$y(n) := u_5 + u_6$
$v_2(n+1) := v_1(n)$
$v_1(n+1) := x(n)$

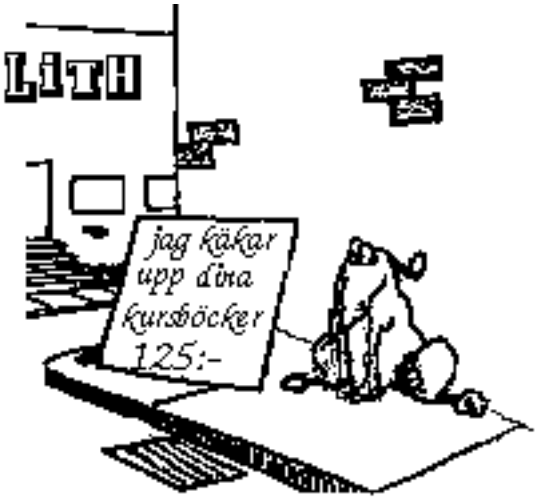
Which can be simplified to

$u_4 := x(n) + a\ v_1(n) + b\ v_2(n)$
$y(\mathrm{n}) := d\ x(n) + c\ u_4$
$v_2(n+1) := v_1(n)$
$v_1(n+1) := u_4$

c)



In Fig. 7.19d the operations are drawn modulo T_{min}, in this case modulo 8.



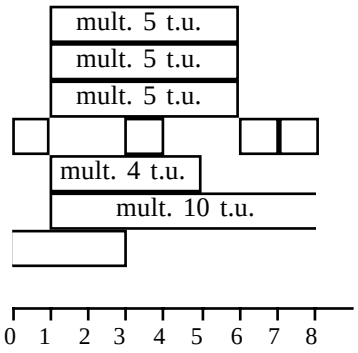


Fig. 7.19d. Timing diagram of schedule.

"I will eat your textbook for only 125 Swedish krons"