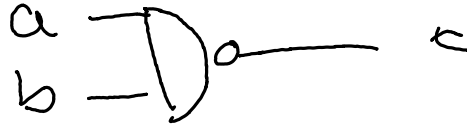


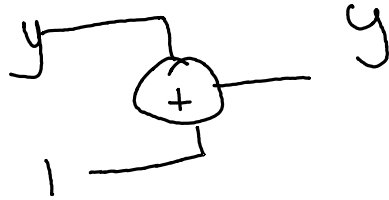
HDL Idioms

Exercise 1

(a)



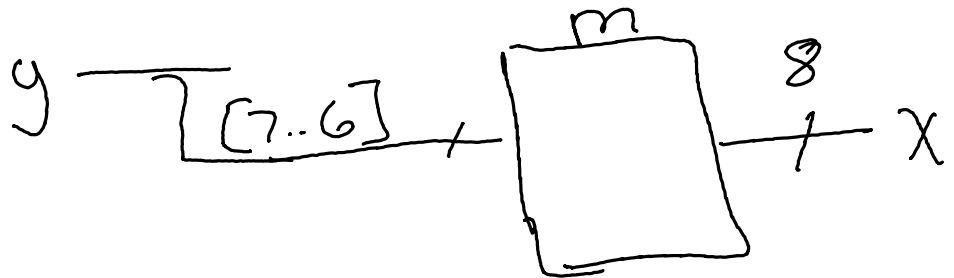
(b)



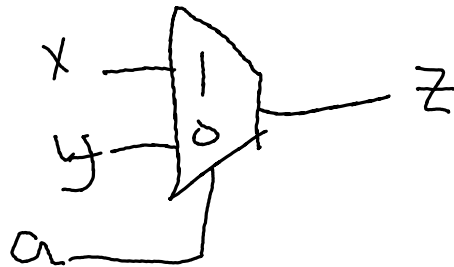
(c)



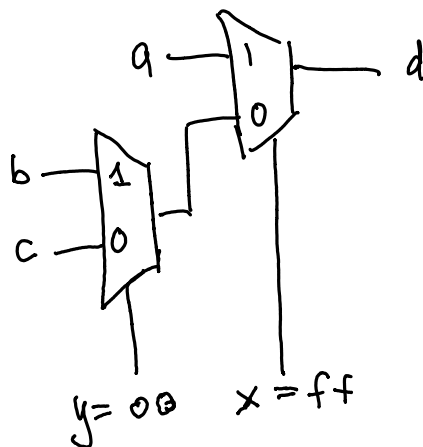
(d)



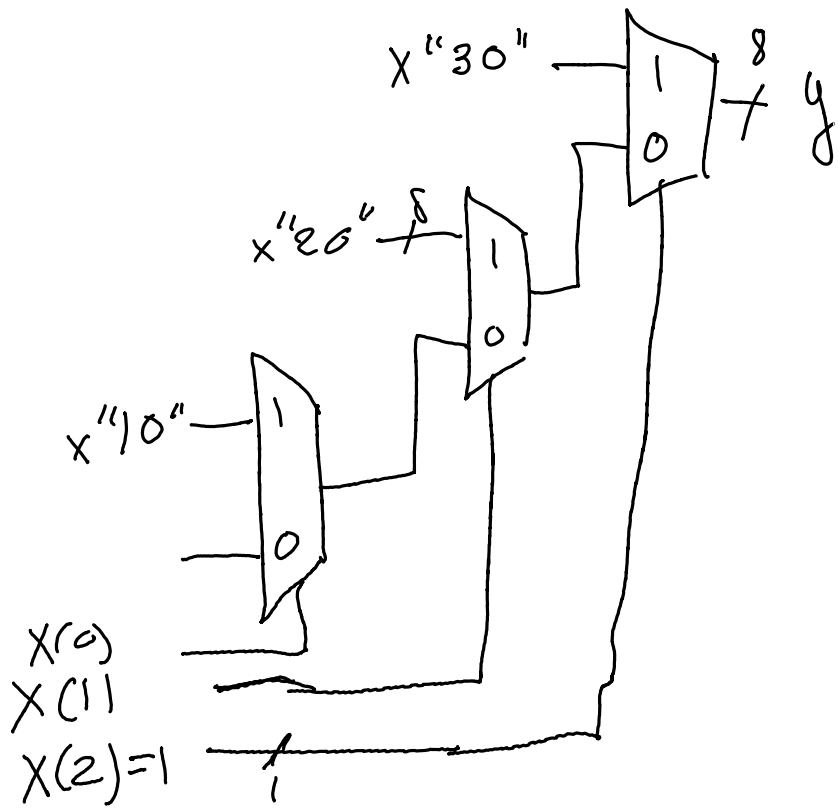
(e)



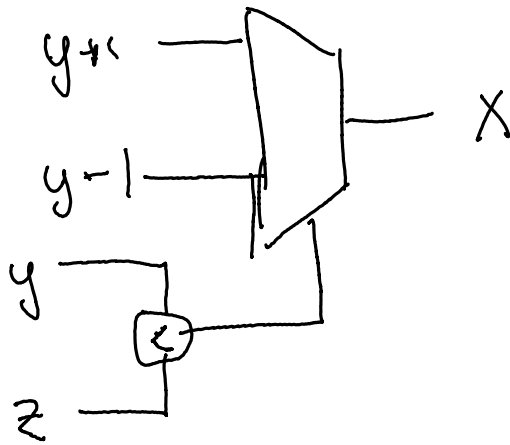
(f)



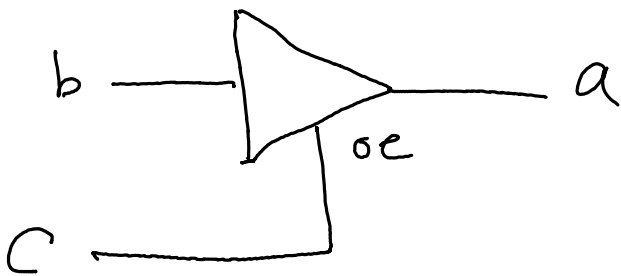
g



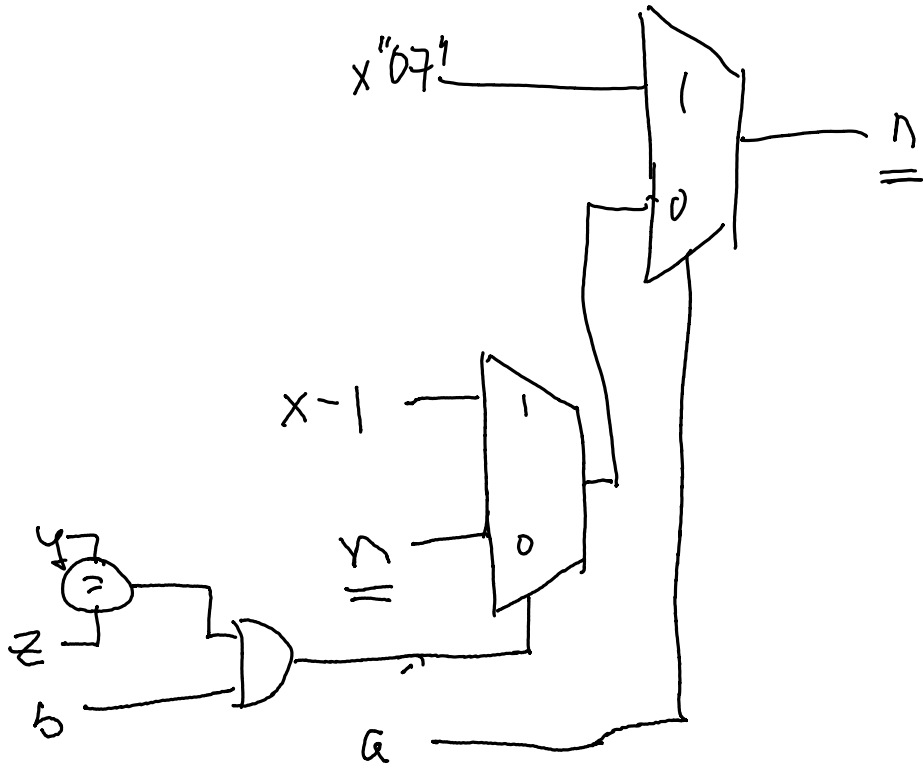
h



i

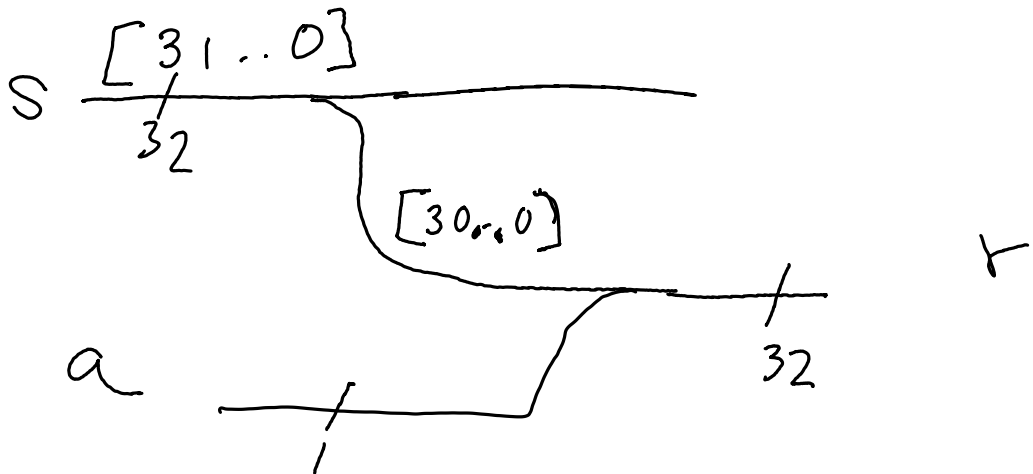


j



9

k

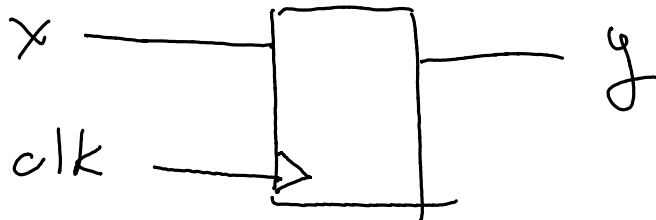


l

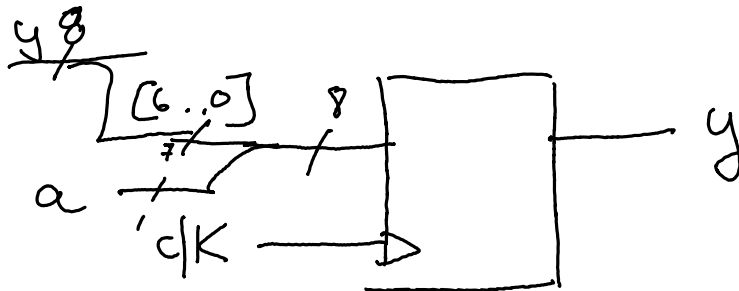


Exercise 2

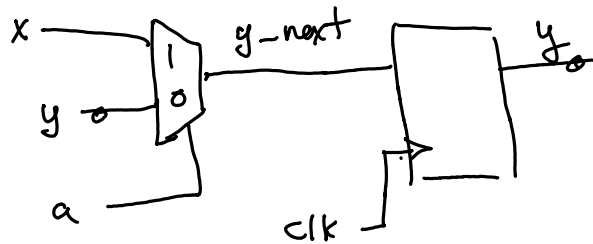
(a)



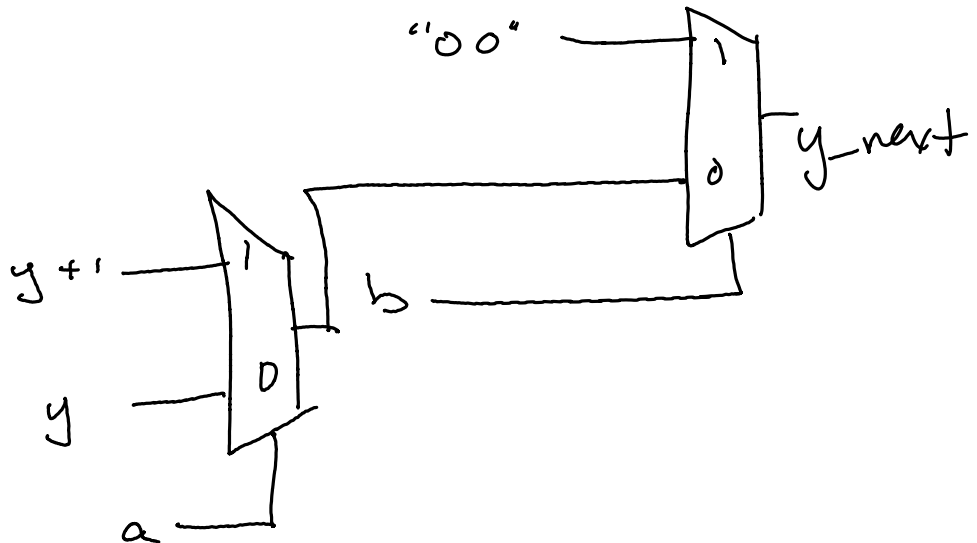
(b)

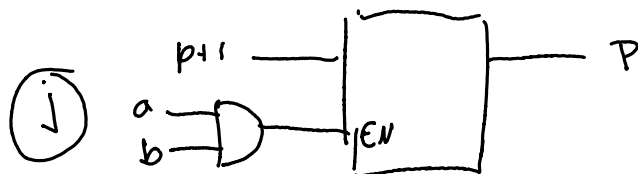
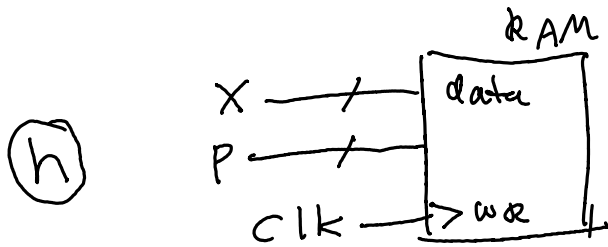
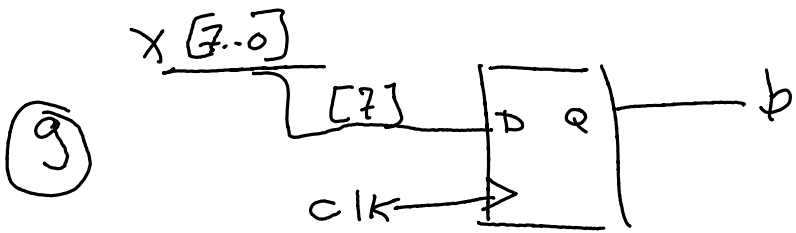
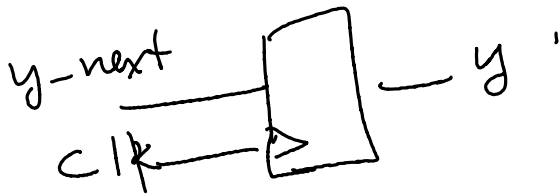
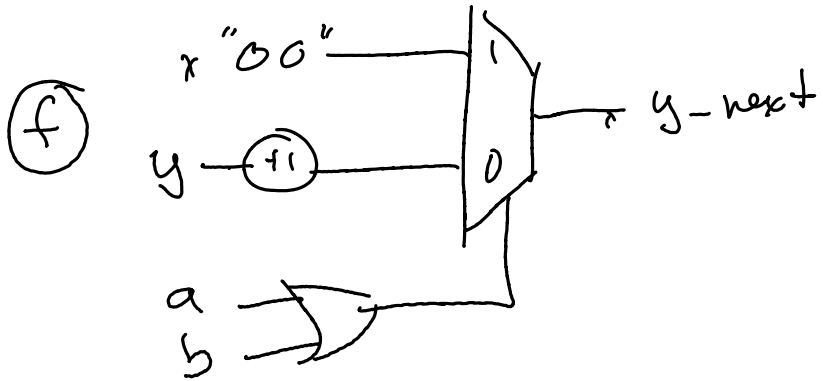
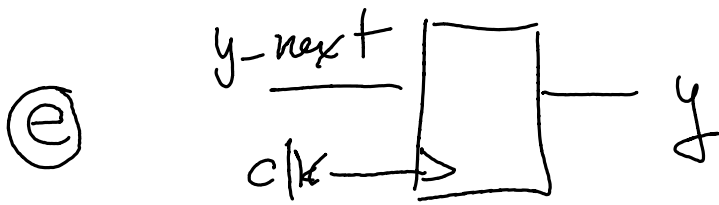


(c)



(d)





Exercise 3

a

$z \leftarrow x \neq y;$

b

$d \leftarrow c + 1;$

...

e

$ab \leftarrow \text{not } a \text{ when } \text{oen} = '1'$
 $\text{else } x \text{"zzzz"};$

f

$q \leftarrow d$ when
falling-edge (clk);