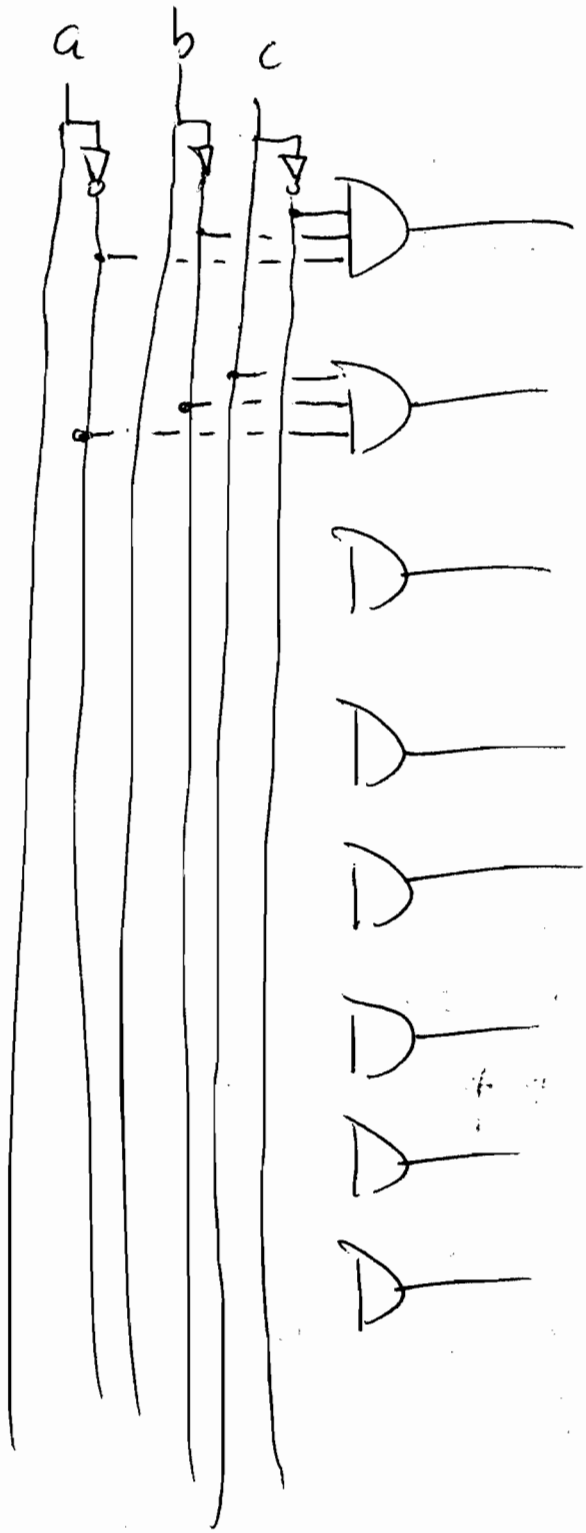
/ Answer IMC p10q1 Dig Elec 2003

a)



etc.

b) 8, 2^n

P.T.O.

c) $G_0 = \bar{x}_1 \bar{x}_2 \bar{x}_3 \bar{x}_4 \bar{x}_5 \bar{x}_6 \bar{x}_7 +$

$+ x_2 \bar{x}_3 \bar{x}_4 \bar{x}_5 \bar{x}_6 \bar{x}_7 +$

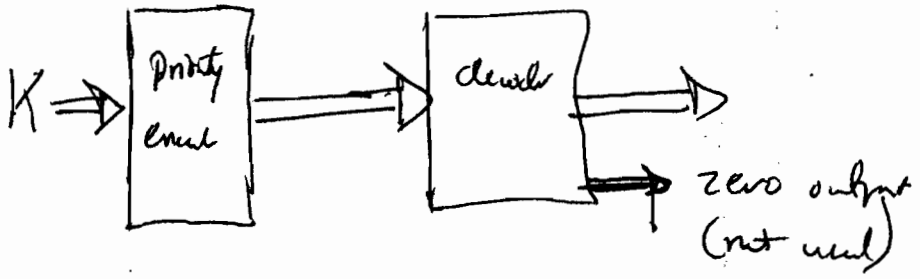
$+ x_4 \bar{x}_5 \bar{x}_6 \bar{x}_7 +$

$+ x_6 \bar{x}_7$

etc.

Can share terms.

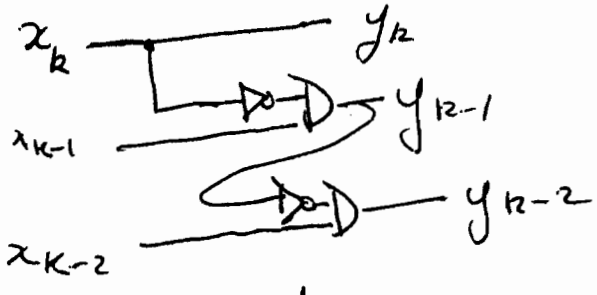
d)



need to worry about sizes:

"n" should be such that

$2^n - 1 \geq K$.



etc.

e) Second simple but slower, first fast but complex.