Jun 2- well implementation if delay in each got is 2ns total dum = 4 mg -) after factory total dula = 6n) (critical path) longest path factoring man reduce the cost of an implementation, but may cause longer Fuctional Decomposition

f= X1 x2 x3 + X1 X2 x3 + X1 X2 X4 + X1 x2 x4

 $= (\overline{x_1}x_2 + x_1\overline{x_2}) X_3 + (x_1\overline{x_2} + \overline{x_1}\overline{x_2}) X_{\gamma}$ 

 $\int g = \overline{x_1 x_2} + x_1 \overline{x_2}$ 

= 9 x3 + 9 x4

$$f = \overline{x_1} x_2 x_3 + x_1 x_2 x_3 + x_1 x_2 x_4 + \overline{x_1} x_2 x_4$$

(alculate cost [Need the invertex])?

2 invertex

4 3-input AND = 12

1 4-input or = 4

inputs = 7

inputs = 7

privinal cost = 7

privinal cost = 25

