Problem:

Data = 8 bit

Address = 14 bit

Total Memorcy = 3 kbyte

Chip Size = 512 byte

Design a memory articaly.

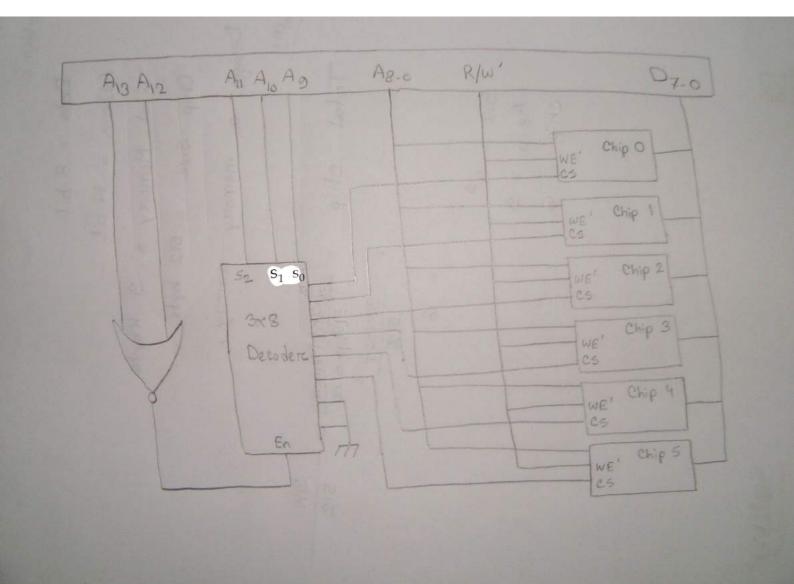
Solno

 $= \frac{3 \times 1024^{2}}{512}$ 

- 6

512 = 29

A8-0 = 9



Problem :

Total Memorry = 4 Kbyte

chip size = 1 kb

Data = 8 bit

Address Bit = 16

Design a memorcy arcreay.

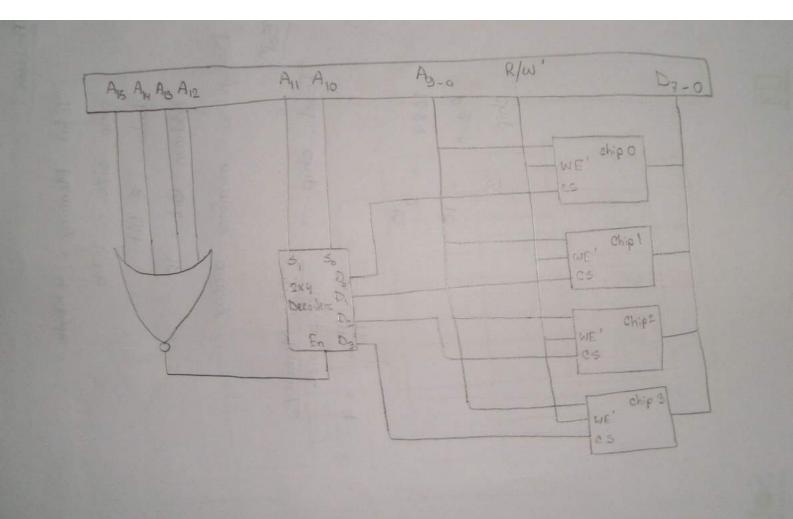
5010°

Total chip = Total Memorcy chip size

 $= \frac{4K}{1K} = 4$ 

1024 = 210

Ag-0 = 10



16 bits processore

Data Bus = 16 bits

Address Bus = 180 bits

chips = 7

Size = IM RAM

... Total Memorry = 7x IM

= 7M

1024× 1024 = 220

A 13-0 = 20

