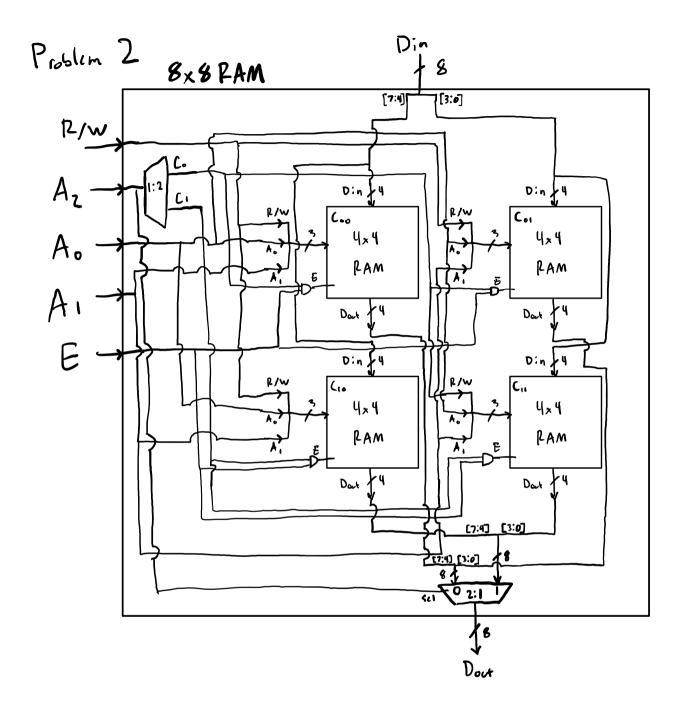
Connor Aksoma 1/23/23 CSE 371 HV2 Problem 1

a) [256 x 8]

Truth Table		
4 6:45 4 6:45	86.75	
- a b	Out	
\[ 0 \times 0 \times 0 \times 0	0x 6	
28	•	
entring OXF OXF	OxEl	

6) [128, 4]

	T, 16:14	36.75	Table 36.45	4 bits
ſ	0	0 <sub>x</sub> 0	0×0	0 × 0
2 entitles		1		•
	, 1	0x7	0×7	0×E



Problem 3 4 M: X16 8 chips  $2^{12} \times 2^{4}$ 64M; brtis -> 219 bits 7 16 × 23 115 6:45 64 Mi bitis 215 -> 32 M; X 16 15 6:45 12 6.75 ~ 231.55 12 6:45 36;75 4 mix16 allress with Chip Selict 3 bits; 3x8 decoder

Problem 4 (see sign\_nag\_add. sv & sync\_rom.sv)

Sign\_mag\_add.svAlm;: 5

SYNC-rom. su Alms: 0

Time Spent: 2 hours

Difficulty: Basy