(3) ollocoted resources toble:

Prousses	C	62	T3	14	15
P.) -	0	2	1	
P,	2	0	1		0
22		-1	0	1	0
15	1	1	-	17	0

Moximum needs table:

Processes	16	10	13	6 54	15	
P		1	2	1	3	
P2	2	2	6	1	0	
P3	2)	3	11	0	
Py	1		2	2	1	
11 /						

Moximum remining resource needs toble:

							7
200	Prolesses	10	10	153	164	5	1
-	8,	0	1	0	0	2	1
	P	Ô	2	· Po	0	0	
	P3	I I	0	3	0	0	1
	Py	0		-1			L

E=[5, 7, 4, 5, 2. if x=0 A=[0,0,0,1,1] -no processes can be recessed, which results in a deallock with on processes. if x=1 [E = [5, 7, 5, 5, 2] A=[0,0,1,1,1] CM only release Py A = [1,1,1,1,0] = [1,1,2,2,1] - no more processes con be recessed, which results in a deadlock with P, Pa, and P3.

if x=7: E=[s, 2, 6, 5, 2. A=[0,0,2,1,1] Con only release Py A + [1, 1, 1, 1, 0] = [1, 1, 3, 2, 1] LM only release P3 A = [1,1,0,1,0] = [2,2,3,3,1] Con 0114 reliase Pa A = [2, 0, 1, 1, 0] = [4, 2, 4, 4, 1] No more grollsses con be relosed as for requests 3 units of 15, and there only exists 2 units of This is shown below i