

(11)

-1-

$$r:$$

A	B	C	D
0	0	1	1
0	1	1	0
1	0	0	1
1	0	1	1

$$r':$$

C	D	E
1	1	0
1	1	1
0	0	0
0	1	1
0	1	0

a) $r[(B, C)]:$

B	C
0	1
1	1
0	0

b) $r'[(C, D)] \setminus r[(C, D)]:$

C	D
0	0

(tuplele din $r'[(C, D)]$ sunt $(1,1), (0,0), (0,1)$;
tuplele din $r[(C, D)]$ sunt $(1,1), (1,0), (0,1)$)

c) $r[(A, C)] \times r'[(D, E)]$

$r[(A, C)] = \{(0,1), (1,0), (1,1)\}$

$r'[(D, E)] = \{(1,0), (1,1), (0,0)\}$

\Rightarrow produsul cartezian
conține:

$\{(0,1,1,0), (0,1,1,1), (0,1,0,0), (1,0,1,0),$
 $(1,0,1,1), (1,0,0,0), (1,1,1,0), (1,1,1,1), (1,1,0,0)\}$

Se poate scrie și sub formă de tabel:

A	B	C	D
0	1	1	0
0	1	1	1
1	1	0	0

d) $r * r'$ (join natural) \Rightarrow se poate face condi
 $r[(C, D)] = \{(1,1), (0,1)\}$