

# Week 6 Recitation

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- (1 min max) Go over quiz from last week
- (2 min max) Go over homework from last week.
- Questions about lecture / homework so far?
- Questions from refresher sheet...
- Power Set of  $\{1, 2, \{3, 4, 5\}\}$ :  $\{\emptyset, \{1\}, \{2\}, \{\{3, 4, 5\}\}, \{1, 2\}, \{1, \{3, 4, 5\}\}, \{2, \{3, 4, 5\}\}, \{1, 2, \{3, 4, 5\}\}\}$
- Cartesian Product:  $A \times B \times C$  for  $A = \{1, 2, 3\}$ ,  $B = \{c\}$ ,  $C = \{\{1, 2, 3\}, \{a, b, c\}\}$   
 $\{(1,c,\{1,2,3\}), (1,c,\{a,b,c\}), (2,c,\{1,2,3\}), (2,c,\{a,b,c\}), (3,c,\{1,2,3\}), (3,c,\{a,b,c\})\}$
- Membership tables (Rosen 2.2:17b)

$A$	$B$	$C$	$A \cap B \cap C$	$\overline{(A \cap B \cap C)}$	$\bar{A}$	$\bar{B}$	$\bar{C}$	$(\bar{A} \cup \bar{B} \cup \bar{C})$
0	0	0	0	1	1	1	1	1
0	0	1	0	1	1	1	0	1
0	1	0	0	1	1	0	1	1
0	1	1	0	1	1	0	0	1
1	0	0	0	1	0	1	1	1
1	0	1	0	1	0	1	0	1
1	1	0	0	1	0	0	1	1
1	1	1	1	0	0	0	0	0

- No quiz...