

# HW\_01\_SOLUTIONS

## 2.8

For ease, the pair (1,2) is simply written as 12; (5,6) is written as 56, etc.

- $A = \{12, 22, 32, 42, 52, 62, 14, 24, 34, 44, 54, 65, 16, 26, 36, 46, 56, 66\}$
- $C' = \{22, 24, 26, 42, 44, 46\}$
- $A \cap B = \{22, 24, 26, 42, 44, 46, 62, 64, 66\}$
- $A \cap B' = \{12, 14, 16, 32, 34, 36, 52, 54, 56\}$
- $A' \cup B = \{11, 21, 31, 41, 51, 61, 13, 23, 33, 43, 53, 63, 15, 25, 35, 45, 55, 65, 22, 42, 62, 24, 44, 64, 26, 46, 66\}$
- $A' \cap C = \emptyset$