

## Tutorial Sheet 1 (Answers)

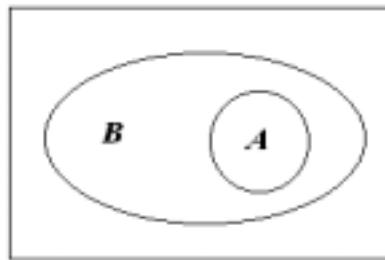
1. a)  $\{1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12\}$   
 b)  $\{1, 4, 9, 16, 25, 36, 49, 64, 81\}$  c)  $\emptyset$

2. a) = b) = c) and e) = f)

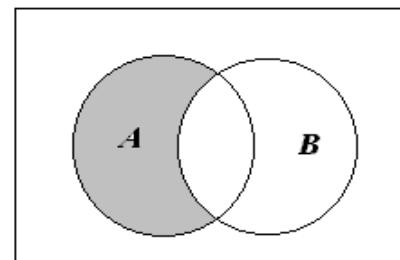
3. a)  $A \subset B$  b)  $B \not\subset C$  c)  $C \not\subset D$  d)  $A \not\subset \emptyset$   
 e)  $\emptyset \subset A$  f)  $D \subset U$  g)  $C \not\subset B$  h)  $U \not\subset C$

4. a)  $\{1, 2, 5, 8, 9\}$  b)  $\{1, 8, 2, 5, 9\}$  c)  $\{2, 5\}$   
 d)  $\emptyset$  e)  $\{1\}$  f)  $\{8, 9\}$   
 g)  $\{1, 2, 5, 8, 9\}$  h)  $\{1, 2, 5, 9\}$   
 i)  $\{1, 2, \dots, 7, 10, 11, \dots, 99, 100\}$

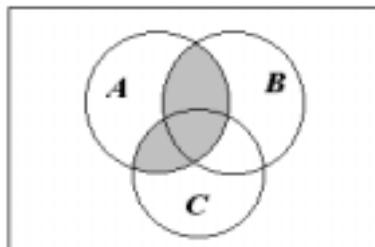
5. a) b)



c)



d)



e)

