Množinové pojmy

1) Najdi průnik $A \cap B$, sjednocení $A \cup B$ a rozdíly $A-B$, $B-A$ množin A, B pokud:

a) $A = \{1, 3, 5, 7, 9\}$
$B = \{2, 3, 4, 5, 6, 8\}$

b) $A = \{-1, 0, 2, 3, 5, 7\}$
$B = \{0, 1, 2, 3, 4, 5, 6\}$

c) $A = \{2, 4, 5, 6, 8\}$
$B = \{-3, 0, 2, 3, 4, 5, 6, 7\}$

d) $A = \{-10, -7, -4, -3, -2, -1\}$
$B = \{-9, -8, -7, -6, -4, -2\}$

e) $A = \{-10, -7, -4, -3, -2, -1\}$
$B = \{-9, -8, -7, -6, -4, -2\}$

f) $A = \{-6, -4, -2, 0, 1, 3, 5, 7\}$
$B = \boldsymbol{N}$

g) $A = \boldsymbol{Z}$
$B = \boldsymbol{Q}$

h) $A = \{a, d, e, f, i, j, k, m, q, r, u\}$
$B = \{c, d, f, j, k, p, q, r, s, t, y\}$

2) Jsou dané množiny $A = \{0, 1, 2, 3, 4, 5, 6, 7, 8, 9\}$, $B = \{1, 4, 6, 7, 10, 14\}$, $C = \{3, 5, 6, 7, 9\}$, $D = \{0, 2, 4, 6, 8\}$. Urči množiny:

$A \cap C$	$(B \cap C) \cap D$	$C - B$
$B \cup D$	$A \cap (C \cup D)$	$(B \cup C) - D$
$A \cup B$	$A - D$	$D - (B \cap C)$
$C \cap D$	$A - C$	$(A - D) \cup C$

3) Najdi průniky $A \cap B$, $A \cap C$, $B \cap C$, sjednocení $A \cup B$, $A \cup C$, $B \cup C$ a rozdíly $A-B$, $A-C$, $B-A$, $B-C$, $C-A$, $C-B$ pokud :

a) $A = \{2, 3, 4, 5, 7, 8, 9\}$
$B = \{1, 2, 3, 4, 6, 7, 8\}$
$C = \{3, 4, 5, 8, 9\}$

b) $A = \{0, 2, 3, 5, 6, 7\}$
$B = \{1, 3, 4, 7, 8\}$
$C = \{-3, -1, 0, 3, 4, 5\}$

e) $A = \{0, 2, 4, 6, 8\}$
$B = \{2, 4, 5, 7, 8, 9\}$
$C = \boldsymbol{N}$

d) $A = \{-8, -6, -4, -2, 0, 2, 4, 6, 8\}$
$B = \{-3, -2, -1, 0, 1, 2, 3\}$
$C = \boldsymbol{Z}$

4) Najdi doplněk A'_M množiny A do množiny M pokud :

a) $A = \{3,5,7,8,9\}$

$M = \{n \in N; 1 < n \leq 9\}$

b) $A = \{-8,-5,-3,0,2,3,4,6,9\}$

$M = \{z \in Z; -10 \leq z \leq 10\}$