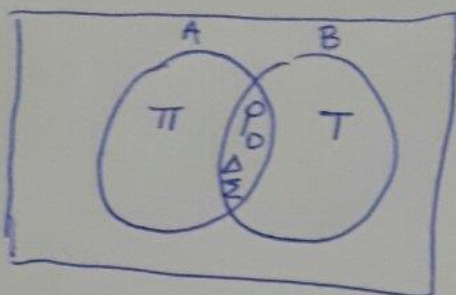


Άσκησης Ενότητας 1

(1) $50 \cdot 2^{10} = 51200$

(2) α)



β) $A \cap B = \{\rho, \Delta, \zeta\}$ γ) $v(A \cap B) = 4$

(3) (i) $A \cap B = \{5, 7\}$

(a) (ii) $A \cup B = \{1, 3, 5, 7, 6, 9, 11\}$

(β) $v(B) = 5$

(4) (i) Λάθος (ii) Σωστό (iii) Σωστό (iv) Λάθος (v) Σωστό.

(5) (a) (i) $A = \{1, 2, 5, 6, 9, 10\}$

(ii) $A \cap B = \{1, 2\}$

(iii) $v(B) = 6$

(iv) $A \cup B = \{9, 5, 6, 10, 1, 2, 4, 8, 7, 3\}$

(β) $\{2, 3, 5, 7\}$

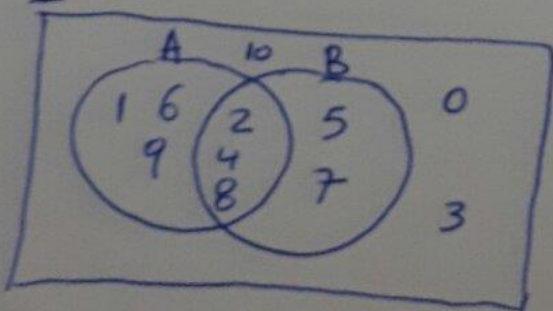
(6) α) $A = \{0, 2, 3, 4, 5\}$ $B = \{\text{Πέμπτη, Παρασκευή}\}$

$\Gamma = \{ \}$ ή $\Gamma = \emptyset$

β) $v(A) = 5$ $v(B) = 2$ $v(\Gamma) = 0$

γ) $\{2, 3\} \subseteq A$ $\{4\} \subseteq A$

(7) α)



$$7) \text{ β) } \alpha) A \cap B = \{2, 4, 8\} \quad v(A \cap B) = 3$$

$$\text{β) } A \cup B = \{1, 8, 6, 9, 5, 7, 2, 4\} \quad v(A \cup B) = 8$$

$$\gamma) A' = \{5, 7, 0, 10, 3\} \quad v(A') = 5$$

$$\delta) B' = \{1, 6, 9, 0, 10, 3\} \quad v(B') = 6$$

$$\epsilon) (A \cup B)' = \{0, 10, 3\} \quad v[(A \cup B)'] = 3$$

- 7) γ)
- α) Λάδος
 - β) Λάδος
 - γ) Σωστό
 - δ) Λάδος
 - ε) Λάδος

$$8) \alpha) \{\pi, \rho, \nu, \chi, \theta\} = \{\nu, \pi, \rho, \chi, \theta\}$$

$$\text{β) } \{a, \sigma, \theta, \eta\} \cap \{a, \delta, \sigma, \eta\} = \{\delta, a, \eta, \sigma\}$$