

Test 8 - Numere reale

1) Sa se arate ca numarul:
$$N = (\sqrt{2}-\sqrt{3})^2 + (\sqrt{6}+1)^2 \in \mathbb{N}$$

2) Sa se rezolve in \mathbb{R} ecuatia:
$$\frac{1-|x|}{3} - \frac{3|x|-7}{4} = \frac{1}{2}$$

3) Calculati: $| -4 | + | -2+3 |$. $2 =$

4) Calculati $\{3,88\} - \{-6,88\} =$

5) Stabiliti valoarea de adevar a propozitiei:
 $p: \sqrt{100} + \sqrt{576} = \sqrt{676}$.

6) Fi multimele:

$$A = \{x \in \mathbb{Z} \mid |x| \leq 3\}$$

$$B = \{x \in \mathbb{N} \mid -3 < 2x \leq 5\}$$

Aflati $A \cap B$.

7) Aratati ca $\frac{b}{a} + \frac{a}{b} \geq 2$, (\forall) $a, b > 0$

8) Determinati elementele multimei $A \cap B$ daca:
 $A = (2003, 2015)$
 $B = (2014, 2016)$.

9) $[\sqrt{17}] = ?$