

Muzica rațiunii

Barem de corectare

MATEMATICĂ

Clasa a V-a

17.03.2025

Subiectul 1

$$n = 2^{201} : (2^{98} + 2^{98} + 2^{99}) \cdot 23 \quad (1p)$$

$$n = 46 \quad (1p)$$

$$x^{46} - 1 = 2^{46} - 1 \Rightarrow x = 2 \quad (1p)$$

Subiectul 2

$$4x + 4y < 4x + 7y = 2013 \Rightarrow x + y < 504 \quad (1,5p)$$

$$7x + 7y > 4x + 7y = 2013 \Rightarrow x + y > 287 \quad (1,5p)$$

Subiectul 3

$$A = 2 \cdot 3^2 \cdot \overline{abc} \text{ cub perfect} \quad (1p)$$

$$\overline{abc} = 2^2 \cdot 3 \cdot k^3 = 12k^3 \quad (1p)$$

$$\text{Convine } k \in \{3, 4\} \Rightarrow \overline{abc} \in \{324, 768\} \quad (1p)$$

Qhkw'3r 0''''''

Propus de profOF cp'P gf gkcpw'

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