

**Barem - testul de antrenament nr. 7**

**1. 3 puncte**

$$a = 2022 \cdot 2023 \dots\dots\dots 1p$$

$$b = 2023 \cdot 2024 + 2024 = 2024^2 \dots\dots\dots 1p$$

$$x = 2023 \dots\dots\dots 1p$$

**2. 3 puncte**

$$N = 7^{2023} + (7^3)^{674} = 7^{2023} + 7^{2022} \dots\dots\dots 1p$$

$$N = 7^{2022}(7 + 1) = 7^{2022} \cdot 8 \dots\dots\dots 1p$$

$$N = (7^{674} \cdot 2)^3 \dots\dots\dots 1p$$

**3. 3 puncte**

$x = \text{nr. probleme rezolvate corect}, y = \text{nr. probleme rezolvate greșit}$

$$x + y = 10, 3x - y = 18 \dots\dots\dots 1p$$

$$y = 10 - x, 3x - (10 - x) = 18 \dots\dots\dots 1p$$

$$x = 7(\text{probleme rezolvate corect}); y=3(\text{probleme greșite}) \dots\dots\dots 1p$$