

Rješenja 1.ŠZ iz Matematike 1, grupe 3,7 9, 28.9.2009.

grupa **A**

1. a) $x \in \langle -\infty, -1 \rangle \cup \langle 2, +\infty \rangle$, b) $x \in \mathbb{R} \setminus \{2\}$

2. a) $\neg A \equiv (\exists x_1 \in \mathbb{R})(\exists x_2 \in \mathbb{R})(x_1^3 = x_2^3 \wedge x_1 \neq x_2)$, b) A je \top

3. $z_0 = 0$, $z_{1,2} = \pm \frac{\sqrt{3}}{2} + \frac{3}{2}i$

$$4. A^n = \begin{pmatrix} 1 & 0 & n \\ 0 & 1 & 0 \\ 0 & 0 & 1 \end{pmatrix}$$

grupa **B**

1. a) $x \in \langle -\infty, -2 \rangle \cup [1, +\infty)$, b) $x \in \mathbb{R} \setminus \{-2\}$

2. a) $\neg A \equiv (\exists x_1 \in \mathbb{R})(\exists x_2 \in \mathbb{R})(x_1^4 = x_2^4 \wedge x_1 \neq x_2)$, b) $\neg A$ je \top

3. $z_0 = 0$, $z_{1,2} = \pm \frac{\sqrt{3}}{2} - \frac{3}{2}i$

$$4. A^n = \begin{pmatrix} 1 & n & 0 \\ 0 & 1 & 0 \\ 0 & 0 & 1 \end{pmatrix}$$