

RJEŠENJA ZAVRŠNOG SPITA IZ VJEROJATNOSTI I
STATISTIKE 20.06.2008.

1.

$$\lambda = \sqrt{\frac{n}{\sum_{i=1}^n x_i^2}}$$

2.

$$\bar{x} = 117, \hat{s}^2 = 8.667, \bar{x} \in \langle 115.92, 118.09 \rangle, \hat{s} \in \langle 5.571, 15.702 \rangle$$

3.

a) 0.56 ± 0.068 **b)** $\alpha = 10\%$ (preciznije $\alpha = 8.727\%$) **c)** $n = 263$

4.

$$\hat{t} = 1.91, \quad t_{1-\alpha/2} = 2.093, \quad H_0 \text{ se prihvaća}$$

5.

$$u = -1.63, \quad u_{1-\alpha/2} = 1.96, \quad \text{razlika ne postoji}$$

6.

$$\chi_q^2 = 0.27268, \quad \alpha = 0.95$$

7.

$$P(A) = 0.9856, \quad P(H_4|C) = 0.0879$$

8.

$$C = \frac{2}{9}, \quad P\{X < 1\} = \frac{5}{9}, \quad E(X) = 1$$

9.

a), b), c) predavanja

10.

$Y \setminus X$	2	4	6	8	10	12
1	1/6	0	1/6	0	1/6	0
3	0	1/6	0	1/6	0	1/6

$$Z \sim \begin{pmatrix} 3 & 7 & 11 & 15 \\ 1/6 & 1/3 & 1/3 & 1/6 \end{pmatrix} \quad D(Z) = \frac{44}{3}$$