

3) INTERVAL ZAUPANJA (PRIBLIŽNA ENAČBA)

$$P\left[-k_{1-\alpha/2} \leq \frac{\hat{p} - p}{\sqrt{\frac{\hat{p}(1-\hat{p})}{n}}} \leq k_{1-\alpha/2}\right] = 1 - \alpha$$

ZAHTEVA,

$$|\hat{p} - p| \leq E = 0.04$$

$$-E \leq \hat{p} - p \leq E \quad / : \sqrt{\frac{\hat{p}(1-\hat{p})}{n}}$$

$$\frac{-E}{\sqrt{\frac{\hat{p}(1-\hat{p})}{n}}} \leq \frac{\hat{p} - p}{\sqrt{\frac{\hat{p}(1-\hat{p})}{n}}} \leq \frac{E}{\sqrt{\frac{\hat{p}(1-\hat{p})}{n}}}$$

$$n = \frac{k_{1-\alpha/2}^2}{E^2} \hat{p}(1-\hat{p}) = 510.9$$

$$n \geq 511$$

(GLEJ STR. 160 (9.2.6)
V SKRIPTA)

VZOREC JE PREMASHEN.