PREZIME I IME: _

BROJ INDEKSA: _____

PREDISPITNE OBAVEZE 1

1. Izračunati sume brojnih redova:

a)
$$\sum_{n=1}^{\infty} \left(\frac{1}{n^2} - \frac{1}{(n+1)^2} \right)$$
, po definiciji.

$$S_k = \frac{k}{2} \left(\frac{\Lambda}{N^2} - \frac{\Lambda}{(N+N)^2} \right) =$$

$$= \sqrt{-\frac{1}{4} + \frac{1}{4} - \frac{1}{6} + \frac{1}{6} +$$

$$= \sqrt{-1/4} + \sqrt{$$

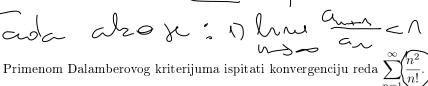
$$\sum_{n=1}^{\infty} \frac{3^n}{3^n}$$

$$+\sum_{N=1}^{\infty}\left(-\frac{1}{3}\right)^{N}$$

$$= \sum_{N=0}^{\infty} \frac{1}{3^{N}} + \sum_{N=0}^{\infty} (-\frac{1}{3})^{\frac{1}{3}}$$

- - 2 an, an>





ada also x: 1) hour and </br>

$$\frac{(n+1)^2}{(n+1)^2}$$

$$\frac{1}{\sqrt{2}} = \frac{\sqrt{2}}{\sqrt{2}} = 0$$

$$\frac{\sqrt{2}}{\sqrt{2}} = 0$$

- 3. Ispitati konvergenciju reda $\sum_{n=1}^{\infty} \frac{n^{n-1} + 2^n}{n^n}.$

- 4. Formulisati Vajerštrasov kriterijum za konvergenciju funkcionalnih redova.
 - probatanja
- 5. Ispitati da li važe sledeće jednakosti:

a)
$$\sum_{n=0}^{\infty} (-1)^n = (1-1) + (1-1) + (1-1) + \dots$$



re postoge a s a desne strare

