Marie : Etalo Nierico dos Santos James de Floreire do matricula: 20170118996

Simplificando o tumo gual da regunda: Willsondo a propriedado algerbrica: $a+b=a(1+\xi)$

Potanto,
$$\frac{n^2}{n+1} - \frac{n^2}{n+2} = \frac{n^2}{n+1} \left(1 - \frac{n^2}{n+2} \right)$$

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

$$\lim_{N\to\infty} \frac{n^2}{N+1} - \frac{n^2}{N+2} = \lim_{N\to\infty} \frac{n^2}{(n+2)(n+1)}$$

Russlands o limit: $\lim_{N\to\infty} \frac{n^2}{(n+2)(n+1)} = \lim_{N\to\infty} \frac{n^2}{n^2+3n+2} = \lim_{N\to\infty} \frac{1}{1+\frac{3}{2}} + \frac{2}{n^2}$

$$\frac{\sqrt{m \cdot \log n + \log(1)}}{\sqrt{m \cdot \log n}} = 1$$