$$3 - \frac{2}{5n+1}$$

$$\lim_{m \to +\infty} \left(3 - \frac{2}{5m+1} \right) = 3 - \frac{2}{+\infty} = 3 - 0 = 3$$

$$\lim_{m \to +\infty} \frac{(-1)^m}{m+1} \quad \text{osserviato che lim} \; (-1)^m \quad \text{un essiste}$$

$$\lim_{m \to +\infty} \frac{(-1)^m}{m+1} \quad \text{osserviato che lim} \; (-1)^m = \begin{cases} 1 & \text{in a noisyon} \\ -1 & \text{in a noisyon} \end{cases}$$

$$a_m = \frac{(-1)^m}{m+1} \quad a_m = \frac{1}{2} \quad a_m = \frac{1}{2$$

Teorema dei due carabinieri. Siano $\{a_n\}$, $\{c'_n\}$ e $\{c''_n\}$ tre successioni reali tali che $c'_n \leq a_n \leq c''_n \quad \forall n.$

Se le successioni $\{c'_n\}$ e $\{c''_n\}$ convergono a uno stesso limite L, allora anche $\{a_n\}$ converge a L.

$$C_{m} = \frac{(-1)^{m}}{m+1}$$
 $C_{m} = \frac{1}{m+1}$
 $C_{m} = \frac{1}{m+1}$

$$\frac{1}{m+1} \le \frac{1}{m+1} \le \frac{1}{m+1}$$

$$\frac{1}{\sqrt{n+1}} \le \frac{1}{m+1}$$

$$\frac{1}{\sqrt{n+1}} \le \frac{1}{m+1}$$

$$\frac{1}{\sqrt{n+1}} = \frac{1}{\sqrt{n+1}}$$

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$$\frac{1}{\sqrt{n+1}} = \frac{1}{\sqrt{n+1}} = \frac{1}$$