$$\lim_{n \to \infty} \left(\frac{n^2 + 3n}{n^2 - 2} \right)^{n^2 - 2n}$$

$$\lim_{n \to \infty} \left(\frac{n^4 + 2n^2}{n^4 + n} \right)^{\frac{n^3 + 1}{2n - \sqrt{n}}}$$

} inventatene voi' altri' identici

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

$$\lim_{n \to \infty} \left(\frac{n^2 + 1}{3 + 2n^2} \right)^{\frac{n^2 + 1}{n^2 - 1}}$$

$$\lim_{n \to \infty} \left(1 + \sin\left(\frac{1}{n} \right) \right)^{\frac{1}{1 - \cos\left(\frac{1}{n} \right)}}$$

$$\lim_{n \to \infty} n^{\frac{1}{16}} \ln\left(\frac{1}{n} \right)$$

$$\lim_{n \to \infty} \frac{\ln(n)}{n} \quad ; \quad \lim_{n \to \infty} \sqrt[n]{n}$$

$$\lim_{n \to \infty} \frac{1}{n^3} \ln\left(\frac{1}{n} \right)$$

Dire se è vero che

(A) $\ln\left(e^n - 1\right) \sim n$

(B) $\cos\left(\sin\left(\frac{1}{n}\right)\right) - 1 \sim -\frac{1}{2n^2}$

(C) $\tan\left(\frac{1}{4n^2 + 2n + 1}\right) \sin\left(\frac{n+3}{n^2+4}\right) \sim \frac{1}{4n^3}$