

**Predmet:** Mataliza 1  
**Dobrovolny Ukol:** 1.  
**Verze:** 1.  
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**Prezdivka:** DN

## **zadani**

Spoctete limitu posloupnosti  $\lim_{n \rightarrow \infty} \log(1 + \frac{1}{\sqrt{n}})$

## **reseni**

Pouzijeme vetu o *limite slozene funkce*

$$\lim_{n \rightarrow \infty} \log(1 + \frac{1}{\sqrt{n}}) = \lim_{y \rightarrow y_0} \log(y)$$

$$y = \lim_{n \rightarrow \infty} (1 + \frac{1}{\sqrt{n}}) = 1$$

$$\lim_{y \rightarrow 1} \log(y)$$

$$\lim_{n \rightarrow \infty} \log(1 + \frac{1}{\sqrt{n}}) = 0$$

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