

数Ⅲ(区分解積分②)

〇次の極限値を求めよ。

$$\textcircled{1} \lim_{n \rightarrow \infty} \left(\frac{1}{n+1} + \frac{1}{n+2} + \dots + \frac{1}{n+n} \right) \quad \textcircled{2} \lim_{n \rightarrow \infty} \frac{1}{n\sqrt{n}} (\sqrt{2} + \sqrt{4} + \dots + \sqrt{2n}) \quad \textcircled{3} \lim_{n \rightarrow \infty} \frac{\pi}{n} \sum_{k=1}^n \cos^2 \frac{k\pi}{6n}$$

