

$$(4) \quad \lim_{n \rightarrow \infty} \left\{ \left(\frac{1}{n}\right)^4 + \left(\frac{2}{n}\right)^4 + \left(\frac{3}{n}\right)^4 + \dots + \left(\frac{n}{n}\right)^4 \right\} -$$

$$\lim_{n \rightarrow \infty} \frac{1}{n} \left\{ \frac{1}{n^4} + \frac{2^3}{n^4} + \dots + \frac{n^3}{n^4} \right\}$$