



## Question

If we know that  $\sum_{k=1}^n a_k = \frac{2n^2 + 5}{n^2 + 4}$ , then which of the following must be true about  $\sum_{n=1}^{\infty} a_n$ ?

- A. It diverges, because  $\lim_{n \rightarrow \infty} \frac{2n^2 + 5}{n^2 + 4} \neq 0$ .
- B. It converges to  $\frac{5}{4}$ .
- C. It converges to 2.
- D. It converges, but we can't know its exact value.
- E. There is not enough information to determine whether or not it converges or diverges.