

Notation Mistake

Example Find $\lim_{n \rightarrow \infty} \frac{n(n+1)}{2n^2 + 3n - 4}$.

Solution

$$\begin{aligned} \lim_{n \rightarrow \infty} \frac{n(n+1)}{2n^2 + 3n - 4} &= \frac{n^2 + n}{2n^2 + 3n - 4} \\ &= \frac{n^2}{2n^2} \\ &= \frac{1}{2} \end{aligned}$$

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