

**Exercise 1**

$$\lim_{n \rightarrow -5} \frac{\frac{2}{n+3} - \frac{3}{n+2}}{n+5} = \boxed{-\frac{1}{6}}$$

**Hint:** Multiply by  $\frac{(n+2)(n+3)}{(n+2)(n+3)}$ .

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