

## PRACTICE QUIZ 5

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**Time: 10 min**

**Time to beat: 4 min**

**Problem 1.** Find the limit  $\lim_{x \rightarrow -1} \frac{x^2+3x+2}{x^2+4x+3}$

**Problem 2.** Find the limit  $\lim_{x \rightarrow 2} \frac{x-2}{\sqrt{x^2-4}}$ .

**Problem 3.** Find the limit  $\lim_{x \rightarrow 2} \frac{\sqrt{x-2}}{x^2-4}$ .

**Problem 4.** Evaluate  $\lim_{x \rightarrow +\infty} \frac{7x^9-4x^5+2x-13}{-3x^9+x^8-5x^2+2x}$  (Hint: you do not need to factor anything).