

$$\lim_{x \rightarrow -1} \frac{\sqrt{x+5} - 2}{x+1} = \frac{\sqrt{(-1)+5} - 2}{(-1)+1} = \frac{0}{0} \text{ (IND)}$$

CONJUGADO
↓

$$\lim_{x \rightarrow -1} \frac{(\sqrt{x+5} - 2)(\sqrt{x+5} + 2)}{(x+1)(\sqrt{x+5} + 2)} =$$

$$\lim_{x \rightarrow -1} \frac{(\sqrt{x+5})^2 - (2)^2}{(x+1)(\sqrt{x+5} + 2)} =$$

$$\lim_{x \rightarrow -1} \frac{x+5-4}{(x+1)(\sqrt{x+5} + 2)} =$$

$$\lim_{x \rightarrow -1} \frac{\cancel{x+1}}{(\cancel{x+1})(\sqrt{x+5} + 2)} =$$

$$\lim_{x \rightarrow -1} \frac{1}{\sqrt{x+5} + 2} = \boxed{\frac{1}{4}}$$