

$$\lim_{x \rightarrow 4} \left(\frac{x+2}{6} \right)^{\frac{1}{x-4}} = 1^{\infty} \text{ (INDETERMINACIÓN)}$$

$$e^{\lim_{x \rightarrow a} (f(x)-1)g(x)}$$

$$e^{\lim_{x \rightarrow 4} \left(\frac{x+2}{6} - 1 \right) \cdot \left(\frac{1}{x-4} \right)} =$$

$$e^{\lim_{x \rightarrow 4} \left(\frac{x+2-6}{6} \right) \left(\frac{1}{x-4} \right)} =$$

$$e^{\lim_{x \rightarrow 4} \left(\frac{\cancel{x-4}}{6} \right) \left(\frac{1}{\cancel{x-4}} \right)} =$$

$$e^{\frac{1}{6}} = \sqrt[6]{e}$$