$$f \sim f_{1}, g \sim g, \quad \text{upu} \times \neg a:$$
1) Eau $\exists \lim_{x \to a} f_{1}(x) g_{1}(x), mo \; \exists \lim_{x \to a} f_{1}(x) g_{1}(x) = \lim_{x \to a} f_{1}(x) g_{1}(x)$
2) Eau $\exists \lim_{x \to a} \frac{f_{1}(x)}{g_{1}(x)}, mo \; \exists \lim_{x \to a} \frac{f_{1}(x)}{g_{1}(x)} = \lim_{x \to a} \frac{f_{1}(x)}{g_{1}(x)}.$

$$\mathcal{O} - bo: \; f(x) = (p_{1}(x)f_{1}(x)), \; g(x) = p_{2}(x)g_{1}(x)$$

$$\text{upu} \; p_{1,2}(x) \xrightarrow{x \to a} 1$$
2) $\lim_{x \to a} \frac{f(x)}{g_{1}(x)} = \lim_{x \to a} \frac{f_{1}(x)}{g_{2}(x)} = \lim_{x \to a} \frac{f_{1}(x)}{g_{1}(x)} = \lim_{x \to a} \frac{f_{1}$

= lim f, (x) g, (x)