

$$\begin{array}{c}
\frac{POLY_{Num}(x)}{POLY_{Den}(x)} \xrightarrow{\text{Localize near } \infty} \frac{POLY_{Num}(x)|_{x \text{ near } x_0}}{POLY_{Den}(x)|_{x \text{ near } x_0}} \xrightarrow{\text{i. Approximate}} \frac{Princ. \textcolor{yellow}{TERM}_{Num}(x)|_{x \text{ near } x_0} + [\dots]}{Princ. \textcolor{yellow}{TERM}_{Den}(x)|_{x \text{ near } x_0} + [\dots]}
\end{array}$$