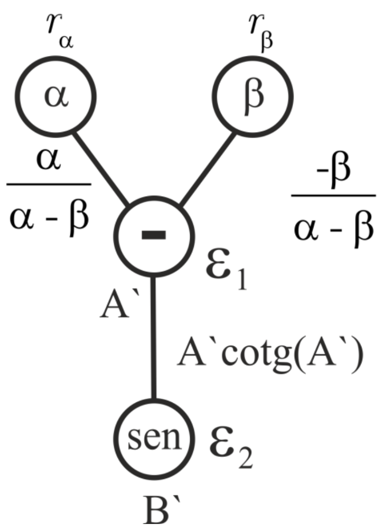
$\text{sen}(\alpha - \beta)$



$A\grave{} = (\alpha - \beta)$ $B\grave{} = \text{sen}(A\grave{})$

$$r_{A\grave{}} = r_\alpha \frac{\alpha}{A\grave{}} - r_\beta \frac{\beta}{A\grave{}} + \varepsilon_1$$

$$r_{B\grave{}} = r_{A\grave{}} A\grave{}\,\text{cotg}(A\grave{}) + \varepsilon_2$$

$$r_{B\grave{}} = \left(r_\alpha \frac{\alpha}{A\grave{}} - r_\beta \frac{\beta}{A\grave{}} + \varepsilon_1 \right) A\grave{}\,\text{cotg}(A\grave{}) + \varepsilon_2$$

$$r_{B\grave{}} = \left(r_\alpha \frac{\alpha}{A\grave{}} - r_\beta \frac{\beta}{A\grave{}} + \varepsilon_1 \right) A\grave{}\,\text{cotg}(A\grave{}) + \varepsilon_2$$

$$r_{B\grave{}} = r_\alpha.\alpha.\,\text{cotg}(A\grave{}) - r_\beta.\beta.\,\text{cotg}(A\grave{}) + \varepsilon_1\,\text{cotg}(A\grave{}) + \varepsilon_2$$

Sabemos que $|\varepsilon_1|, |\varepsilon_2| \le \mu$ y definiendo $f'_\alpha = \alpha.\text{cotg}(A\grave{})$, $f'_\beta = \beta.\text{cotg}(A\grave{})$ y $f'_\mu = A\grave{}.\text{cotg}(A\grave{}) + 1$ tenemos:

$r_{B\grave{}} = r_\alpha.f'_\alpha - r_\beta.f'_\beta + \mu f'_\mu$, y definiendo $F'_\mu = |A\grave{}.\text{cotg}(A\grave{})| + 1$, llegamos a:

$$R_{B\grave{}} = |f'_\alpha|.R_\alpha. + |f'_\beta|.R_\beta + F'_\mu \mu$$