$$F(x) = x \wedge F^{(i)}(x) = 0 \wedge F^{(p)}(x) \neq 0$$

$$(7 \leq i \leq p-1)$$

Rozwijam $F(x_n)$ w szereg taylora w punkcie α

$$\lim_{n\to\infty} \left| \frac{x_{m+1} - \alpha}{(x_n - \alpha)^p} \right| = \lim_{n\to\infty} \left| \frac{\alpha - \alpha + (x_n - \alpha)^p + \frac{f^{(n)}(\alpha)}{p!} + (x_n - \alpha)^{p+1} + \frac{f^{(n+1)}(s)}{(p+1)!}}{(x_n - \alpha)^p} \right| = \lim_{n\to\infty} \left| \frac{f^{(n)}(\alpha)}{(x_n - \alpha)^p} + (x_n - \alpha)^{p+1} + \frac{f^{(n)}(\alpha)}{(p+1)!} \right| = \frac{f^{(n)}(\alpha)}{p!} + 0$$