Example: Oblique Non-Linear Asymptote

$$\frac{-3x^4+19x^2+18x+3}{(-x-2)\,x}$$

$$+(-3x^2)\quad +(6x)\quad +(7)$$

$-(-x-2)\,x$ | $(-3)x^4$ | $+(19)x^2$ | $+(18)x$ | $+(3)$

$(-3x^4)$ $+(-6x^3)$

$+(6)x^3$ | $+(19)x^2$ | $+(18)x$ | $+(3)$

$+(6x^3)$ $+(12x^2)$

$+(7)x^2$ | $+(18)x$ | $+(3)$

$+(7x^2)$ $+(14x)$

$+(4x)$ $+(3)$