Example: Oblique Non-Linear Asymptote

$$\frac{-3\,x^4-6\,x^3+x^2+4\,x+1}{(-x-1)\ (1-x)}$$

				$+ (\boxed{-3\,x^2})$	$+ (\boxed{-6\,x})$	$+ (\boxed{-2})$
$\boxed{(-x-1)\ (1-x)}$	$(-3)\,x^4$	$+(-6)\,x^3$	$+(1)\,x^2$	$+(4)\,x$	$+(1)$	
	$(\boxed{-3\,x^4})$		$+(\boxed{3\,x^2})$			
		$+(-6)\,x^3$	$+(-2)\,x^2$	$+(4)\,x$	$+(1)$	
		$+(\boxed{-6\,x^3})$		$+(\boxed{6\,x})$		
			$+(-2)\,x^2$	$+(-2)\,x$	$+(1)$	
			$+(\boxed{-2\,x^2})$		$+(\boxed{2})$	
				$+(\boxed{-2\,x})$	$+(\boxed{-1})$	