Example: Oblique Non-Linear Asymptote

$$\frac{-3x^4 - 12x^3 + x^2 + 44x + 37}{(-x-3)(-x-1)}$$

				$+(\boxed{-3x^2})$			$+(\boxed{10})$
$(-x-3)(-x-1)$	$(-3)x^4$	$+(-12)x^3$	$+(1)x^2$		$+(44)x$	$+(37)$	
	$(\boxed{-3x^4})$	$+(\boxed{-12x^3})$	$+(\boxed{-9x^2})$				
			$+(10)x^2$		$+(44)x$	$+(37)$	
			$+(\boxed{10x^2})$		$+(\boxed{40x})$	$+(\boxed{30})$	
					$+(\boxed{4x})$	$+(\boxed{7})$	