# Example: Oblique Non-Linear Asymptote

$$\frac{-3x^4-9x^3+x^2+6x+1}{(-x-1)(1-x)}$$

| | | | | | |
|---|---|---|---|---|---|
| | | | $+(-3x^2)$ | $+(-9x)$ | $+(-2)$ |
| $(-x-1)(1-x)$ | $(-3)x^4$ | $+(-9)x^3$ | $+(1)x^2$ | $+(6)x$ | $+(1)$ |
| | $(-3x^4)$ | | $+(3x^2)$ | | |
| | | $+(-9)x^3$ | $+(-2)x^2$ | $+(6)x$ | $+(1)$ |
| | | $+(-9x^3)$ | | $+(9x)$ | |
| | | | $+(-2)x^2$ | $+(-3)x$ | $+(1)$ |
| | | | $+(-2x^2)$ | | $+(2)$ |
| | | | | $+(-3x)$ | $+(-1)$ |