

Example: Oblique Non-Linear Asymptote

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

$$\begin{array}{rcllcl}
 & & + (-3x^2) & + (9x) & + (-2) \\
 \hline
 (-x-1)(1-x) & (-3)x^4 & + (9)x^3 & + (1)x^2 & + (-6)x & + (1) \\
 & (-3x^4) & & + (3x^2) & & \\
 & & + (9)x^3 & + (-2)x^2 & + (-6)x & + (1) \\
 & & + (9x^3) & & + (-9x) & \\
 & & & + (-2)x^2 & + (3)x & + (1) \\
 & & & + (-2x^2) & & + (2) \\
 & & & & + (3x) & + (-1)
 \end{array}$$

