

Example: Oblique Non-Linear Asymptote

$$\frac{-3x^4 + 19x^2 + 18x - 2}{(-x-2)(-x-1)}$$

$$\begin{array}{rcl}
 & & + (-3x^2) + (9x) + (-2) \\
 \hline
 (-x-2)(-x-1) & (-3)x^4 & + (19)x^2 + (18)x + (-2) \\
 & (-3x^4) + (-9x^3) + (-6x^2) & \\
 & + (9)x^3 & + (25)x^2 + (18)x + (-2) \\
 & + (9x^3) & + (27x^2) + (18x) \\
 & + (-2)x^2 & + (-2) \\
 & + (-2x^2) & + (-6x) + (-4) \\
 & & + (6x) + (2)
 \end{array}$$

