

Example: Oblique Non-Linear Asymptote

$$\frac{-3x^4 + 6x^3 + 25x^2 - 52x - 6}{(-x-3)x}$$

$$\begin{aligned}
 & -(-x-3)x \quad (-3)x^4 \quad + (6)x^3 \quad + (25)x^2 \quad + (-52)x \quad + (-6) \\
 & \quad (-3x^4) \quad + (-9x^3) \\
 & \quad \quad + (15)x^3 \quad + (25)x^2 \quad + (-52)x \quad + (-6) \\
 & \quad \quad + (15x^3) \quad + (45x^2) \\
 & \quad \quad \quad + (-20)x^2 \quad + (-52)x \quad + (-6) \\
 & \quad \quad \quad + (-20x^2) \quad + (-60x) \\
 & \quad \quad \quad \quad + (8x) \quad + (-6)
 \end{aligned}$$

