Example: Oblique Non-Linear Asymptote

$$\frac{-3x^4 + 3x^3 + 31x^2 - 26x - 43}{(-x-1)(2-x)}$$

$$+ \left(\boxed{-3x^2} \right) \qquad\qquad + \left(\boxed{25} \right)$$

$$(-x-1)(2-x) \qquad (-3)x^4 \quad +(3)x^3 \quad +(31)x^2 \quad +(-26)x \quad +(-43)$$

$$\left(\boxed{-3x^4} \right) \quad +\left(\boxed{3x^3} \right) \quad +\left(\boxed{6x^2} \right)$$

$$+(25)x^2 \quad +(-26)x \quad +(-43)$$

$$+\left(\boxed{25x^2} \right) \quad +\left(\boxed{-25x} \right) \quad +\left(\boxed{-50} \right)$$

$$+\left(\boxed{-x} \right) \quad +\left(\boxed{7} \right)$$