

Example: Oblique Non-Linear Asymptote

$$\frac{-3x^4 + 9x^3 + 19x^2 - 78x + 57}{(-x-3)(2-x)}$$

$$+ (-3x^2) + (12x) + (-11)$$

$$(-x-3)(2-x) \quad (-3)x^4 + (9)x^3 + (19)x^2 + (-78)x + (57)$$

$$(-3x^4) + (-3x^3) + (18x^2)$$

$$+ (12)x^3 + (1)x^2 + (-78)x + (57)$$

$$+ (12x^3) + (12x^2) + (-72x)$$

$$+ (-11)x^2 + (-6)x + (57)$$

$$+ (-11x^2) + (-11x) + (66)$$

$$+ (5x) + (-9)$$

