

# Example: Oblique Non-Linear Asymptote

$$\frac{-3x^4 + 9x^3 + 19x^2 - 78x + 61}{(-x-3)(3-x)}$$

$$+ (-3x^2) + (9x) + (-8)$$

$$(-x-3)(3-x) \quad (-3)x^4 + (9)x^3 + (19)x^2 + (-78)x + (61)$$

$$(-3x^4)$$

$$+ (27x^2)$$

$$+ (9)x^3 + (-8)x^2 + (-78)x + (61)$$

$$+ (9x^3)$$

$$+ (-81x)$$

$$+ (-8)x^2 + (3)x + (61)$$

$$+ (-8x^2)$$

$$+ (72)$$

$$+ (3x)$$

$$+ (-11)$$

