

# Example: Oblique Non-Linear Asymptote

$$\frac{-3x^4 + 9x^3 + 10x^2 - 33x - 6}{(-x-2)x}$$

$$\begin{array}{r}
 \begin{array}{l}
 + (-3x^2) \\
 + (15x) \\
 + (-20)
 \end{array} \\
 \hline
 -(-x-2)x \quad (-3)x^4 + (9)x^3 + (10)x^2 + (-33)x + (-6) \\
 \quad \quad \quad (-3x^4) + (-6x^3) \\
 \quad \quad \quad + (15)x^3 + (10)x^2 + (-33)x + (-6) \\
 \quad \quad \quad + (15x^3) + (30x^2) \\
 \quad \quad \quad + (-20)x^2 + (-33)x + (-6) \\
 \quad \quad \quad + (-20x^2) + (-40x) \\
 \quad \quad \quad + (7x) + (-6)
 \end{array}$$

