

### Example: Oblique Non-Linear Asymptote

$$\frac{-3x^4 + 37x^2 - 96}{(-x-2)(3-x)}$$

$$+ (-3x^2) + (-3x) + (16)$$

$$\begin{array}{r}
 (-x-2)(3-x) \quad (-3)x^4 \quad + (37)x^2 \quad + (-96) \\
 (-3x^4) + (3x^3) + (18x^2) \\
 + (-3)x^3 + (19)x^2 + (-96) \\
 + (-3x^3) + (3x^2) + (18x) \\
 + (16)x^2 + (-18)x + (-96) \\
 + (16x^2) + (-16x) + (-96) \\
 + (-2x)
 \end{array}$$

