

$$\frac{-3x^4 + 19x^2 + 18x + 3}{(-x-1)(3-x)}$$

$$\begin{array}{r}
 (-x-1)(3-x) \\
 \hline
 (-3)x^4 + (19)x^2 + (18)x + (3) \\
 + (-3x^4) + (6x^3) + (9x^2) \\
 + (-6)x^3 + (10)x^2 + (18)x + (3) \\
 + (-6x^3) + (12x^2) + (18x) \\
 + (-2)x^2 + (3) \\
 + (-2x^2) + (4x) + (6) \\
 + (-4x) + (-3)
 \end{array}$$

