$+(-6 k^2)$ $((-3 k^6)) + ((3 k^5)) + ((3 k^4)) + ((-3 k^3))$ $+ (6) k^{5} + (-6) k^{4} + (-8) k^{3} + (9) k^{2} + (1) k + (-1)$ $+((6 k^{5})) + ((-6 k^{4})) + ((-6 k^{3})) + ((6 k^{2}))$

Which of the following is the Quotient of $-3k^6+9k^5-3k^4-11k^3+9k^2+k-1$ divided by $(-k-1)(1-k)^2$

Coefficient list: $\{3, -6, 0, 2\}$