Which of the following is the Quotient of $-3q^6-3q^5+21q^4+13q^3-43q^2-25q+22$ divided by $(1-q)^2(2-q)$ $+ (3 q^3)$ + (15 q²) + (24 q $(1-q)^2 (2-q) (-3) q^6 + (-3) q^5 + (21) q^4 + (13) q^3 + (-43) q^2 + (-25) q + (22) q^4 + (23) q^4 + (23) q^4 + (24) q$ $+((-15 q^4)) + ((6 q^3))$ $((-3 q^6)) + ((12 q^5))$ $+(-15)q^5 + (36)q^4 + (7)q^3 + (-43)q^2 + (-25)q + (22)$ $+((-75 a^3)) + ((30 a^2))$ $+((-15 q^5)) + ((60 q^4))$ $+(-24)q^4 + (82)q^3 + (-73)q^2 + (-25)q + (22)$ $+((-24 q^4)) + ((96 q^3))$ $+((-120 q^2)) + ((48 q))$ $+(-14)q^3 + (47)q^2 + (-73)q + (22)$ $+((-14 q^3)) + ((56 q^2))$ +((-70 q))+ ((28))

+ (-3 q) + (-6) Coefficient list:

 $\{3, 15, 24, 14\}$