Which of the following is the Quotient of –3 q^6 –3 q^5 + 18 q^4 + 10 q^3 – 25 q^2 + 4 q + 8 divided by (1-q) q^2 $+ (3 q^3)$ + (6 q²) $+(-6)q^{5} + (18)q^{4} + (10)q^{3} + (-25)q^{2} + (4)q + (8)$ $+(12)q^4 + (10)q^3 + (-25)q^2 + (4)q$

$$+(\boxed{12\ q^4}) + (\boxed{-12\ q^3}) \\ + (22)\ q^3 + \\ + (\boxed{22\ q^3}) +$$

$$+ (22) q^{3} + (-25) q^{2} + (4) q + (8)$$

$$+ (22 q^{3}) + (-22 q^{2})$$

$$+ (-3 q^{2}) + (4 q) + (8)$$

Coefficient list: $\{3, 6, -12, -22\}$