Which of the following is the Quotient of $-3t^6 - 3t^5 + 24t^4 + 22t^3 - 49t^2 - 60t - 4$ divided by $(-t - 2)^2 (-t - 1)$ $+(|-12t^2|) + (|12t|)$ $(-t-2)^{2}(-t-1)$ $(-3)t^{6} + (-3)t^{5} + (24)t^{4} + (22)t^{3} + (-49)t^{2} + (-60)t + (-4)$ $(\begin{bmatrix} -3 \ t^6 \end{bmatrix}) + (\begin{bmatrix} -15 \ t^5 \end{bmatrix})$ $+((-24 t^4)) + ((-12 t^3))$ $+ (48) t^4 + (34) t^3 + (-49) t^2 + (-60) t + (-4)$ +(12)t⁵ $+((48 t^2))$ $+((12 t^5))$ $+((60 t^4))$ $+(96 t^3)$ $+(-12)t^4 + (-62)t^3 + (-97)t^2 + (-60)t + (-4)$ $+((-12 t^4)) + ((-60 t^3)) + ((-96 t^2)) + ((-48 t))$

$$+(\underbrace{-12\,t^4}) +(\underbrace{-60\,t^3}) +(\underbrace{-96\,t^2}) +(\underbrace{-48\,t}) +(-1)\,t^3 +(-1)\,t^2 +(-12)\,t +(-4)$$

$$+(-2)t^3 + (-1)t^2 + (-12)t + (-4)$$

 $+(-2)t^3 + (-12)t + (-4)$

$$+(-2)^{2}$$
 $+(-1)^{2}$ $+(-12)^{2}$ $+(-4)^{2}$ $+(-10^{2})$ $+((-16^{2}))$ $+((-8))$

$$+((-10t^2)) + ((-10t)) + ((-8))$$

+ (9 + 2)+ (4 t)

Coefficient list:

 $\{3, -12, 12, 2\}$