Which of the following is the Quotient of $-3h^6 - 6h^5 + 9h^4 + 22h^3 + 10h^2 - 5h - 2$ divided by $(-h - 2)(-h - 1)^2$ $+ (-6 h^2)$ + (-2) $+((-12 h^{5})) + ((-15 h^{4})) + ((-6 h^{3}))$ $+ (6) h^{5} + (24) h^{4} + (28) h^{3} + (10) h^{2} + (-5) h$ $+((24 h^4))$ $+((30 h^3)) + ((12 h^2))$ $+(-2)h^3 + (-2)h^2 + (-5)h$

 $\{3, -6, 0, 2\}$

$$+(-2h^{2}) +(-8h^{2}) +(-10h^{2}) +(-4)$$

Coefficient list: