Which of the following is the Quotient of $-3 w^6 - 15 w^5 - 21 w^4 + w^3 + 19 w^2 + 9 w + 1$ divided by $-(-w-2)^2 w$ $+ (3 w^3)$ $+((-12 \text{ w}^5)) + ((-12 \text{ w}^4))$ $+(-3)w^5 + (-9)w^4 + (1)w^3 + (19)w^2 + (9)w + (1)$ $+((-12 \text{ w}^4)) + ((-12 \text{ w}^3))$ $+ (3) w^4$ $+ (13) w^3$ $+ (19) w^2 + (9) w$

$$+(\underbrace{3\,w^4}) \qquad +(\underbrace{12\,w^3}) \qquad +(\underbrace{12\,w^2}) \\ +(1)\,w^3 \qquad +(7)\,w^2 \qquad +(9)\,w \qquad +(1)$$

Coefficient list: ${3, 3, -3, -1}$

 $+ ((w^3))$ + ((4 w))

 $+ (|3 w^2|)$ + (5 w)