Which of the following is the Quotient of  $-3r^6-9r^5+3r^4+19r^3-3r^2-15r-1$  divided by  $(-r-1)(1-r)^2$ + ( 12 r<sup>2</sup> ) + ( 12 r )  $+ ((3 r^4))$  $+([-3 r^3])$  $+ (-12) r^5$  $+(22) r^3 + (-3) r^2 + (-15) r + (-1)$  $+((12 r^3)) + ((-12 r^2))$  $+([-12 r^5])$  $+(-12) r^4 + (10) r^3 + (9) r^2 + (-15) r + (-1)$  $+([-12 r^4])$  $+((12 r^3)) + ((12 r^2))$ + (( - 12 r))

$$+ ((-12 r^{4})) + ((12 r^{3})) + ((12 r^{2})) + ((-12 r))$$

$$+ (-2) r^{3} + (-3) r^{2} + (-3) r + (-1)$$

+ ((2 r))

$$+(2 r^3) + (2 r^2) + (2 r) + (-2)$$

+ ( -5 r )

Coefficient list:

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