Which of the following is the Quotient of
$$-3p^6 - 12p^5 - 9p^4 + 10p^3 + 8p^2 + 4$$
 divided by $(-p-2)^2(1-p) + (3p^3) + (3p^2) + (2) + (2) + (3p^3) + (3p^2) + (4) + (10p^3) +$

Coefficient list:

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