

1.

Which of the following is the Quotient of  $-3j^6 - 3j^5 + 18j^4 + 10j^3 - 25j^2 + 4$  divided by  $(-j - 2)^2(1 - j)$

$$\begin{array}{r}
 \phantom{(-j-2)^2(1-j)} + (3j^3) + (-6j^2) + (2) \\
 \hline
 (-j-2)^2(1-j) \quad (-3)j^6 + (-3)j^5 + (18)j^4 + (10)j^3 + (-25)j^2 + (4) \\
 \phantom{(-j-2)^2(1-j)} + (-3j^6) + (-9j^5) + (12j^3) \\
 \phantom{(-j-2)^2(1-j)} + (6)j^5 + (18)j^4 + (-2)j^3 + (-25)j^2 + (4) \\
 \phantom{(-j-2)^2(1-j)} + (6j^5) + (18j^4) + (-24j^2) \\
 \phantom{(-j-2)^2(1-j)} + (-2)j^3 + (-1)j^2 + (4) \\
 \phantom{(-j-2)^2(1-j)} + (-2j^3) + (-6j^2) + (8) \\
 \phantom{(-j-2)^2(1-j)} + (5j^2) + (-4)
 \end{array}$$

Coefficient list:

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