

1.

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

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

Coefficient list:

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