

2.

Which of the following is the Quotient of $-3e^6 + 6e^5 + 9e^4 - 26e^3 + 14e^2 + 3e - 2$ divided by $(-e - 2)(1 - e)^2$

$$\begin{array}{r}
 + (3e^3) + (-6e^2) + (2) \\
 \hline
 (-e-2)(1-e)^2 \quad (-3)e^6 + (6)e^5 + (9)e^4 + (-26)e^3 + (14)e^2 + (3)e + (-2) \\
 + (-3e^6) + (9e^4) + (-6e^3) \\
 + (6)e^5 + (-20)e^3 + (14)e^2 + (3)e + (-2) \\
 + (6e^5) + (-18e^3) + (12e^2) \\
 + (-2)e^3 + (2)e^2 + (3)e + (-2) \\
 + (-2e^3) + (6e) + (-4) \\
 + (2e^2) + (-3e) + (2)
 \end{array}$$

Coefficient list:

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