

3.

Which of the following is the Quotient of  $-3e^6 - 15e^5 - 21e^4 + e^3 + 19e^2 + 11e + 4$  divided by  $-(-e - 1)^2 e$

$$\begin{array}{r}
 \phantom{-(-e-1)^2 e} \phantom{(-3)e^6} \phantom{+(-15)e^5} \phantom{+(-21)e^4} + (3e^3) + (9e^2) \phantom{+(-11)e} + (-10) \\
 \hline
 -(-e-1)^2 e \quad (-3)e^6 \quad +(-15)e^5 \quad +(-21)e^4 \quad + (1)e^3 \quad + (19)e^2 \quad + (11)e \quad + (4) \\
 \phantom{-(-e-1)^2 e} \quad (-3e^6) \quad + (-6e^5) \quad + (-3e^4) \\
 \phantom{-(-e-1)^2 e} \phantom{(-3e^6)} \quad + (-9e^5) \quad + (-18e^4) \quad + (1)e^3 \quad + (19)e^2 \quad + (11)e \quad + (4) \\
 \phantom{-(-e-1)^2 e} \phantom{(-3e^6)} \quad + (-9e^5) \quad + (-18e^4) \quad + (-9e^3) \\
 \phantom{-(-e-1)^2 e} \phantom{(-3e^6)} \phantom{+(-9e^5)} \phantom{+(-18e^4)} \quad + (10)e^3 \quad + (19)e^2 \quad + (11)e \quad + (4) \\
 \phantom{-(-e-1)^2 e} \phantom{(-3e^6)} \phantom{+(-9e^5)} \phantom{+(-18e^4)} \quad + (10e^3) \quad + (20e^2) \quad + (10e) \\
 \phantom{-(-e-1)^2 e} \phantom{(-3e^6)} \phantom{+(-9e^5)} \phantom{+(-18e^4)} \phantom{+ (10e^3)} \quad + (-e^2) \quad + (e) \quad + (4)
 \end{array}$$

Coefficient list:

$\{3, 9, 0, -10\}$