

4.

Which of the following is the Quotient of  $-3e^6 - 3e^5 + 9e^4 + e^3 - 7e^2 + 3e - 2$  divided by  $(-e - 1)e^2$

$$\begin{array}{r}
 \phantom{(-e-1)e^2} \phantom{(-3)e^6} \phantom{+(-3)e^5} \phantom{+(9)e^4} + (3e^3) \phantom{+(-7)e^2} + (-9e) + (8) \\
 \hline
 (-e-1)e^2 \phantom{+(-3)e^5} \phantom{+(9)e^4} \phantom{+(1)e^3} \phantom{+(-7)e^2} \phantom{+(3)e} \phantom{+(-2)} \\
 \phantom{(-e-1)e^2} (-3e^6) + (-3e^5) \phantom{+(9)e^4} \phantom{+(1)e^3} \phantom{+(-7)e^2} \phantom{+(3)e} \phantom{+(-2)} \\
 \phantom{(-e-1)e^2} \phantom{(-3)e^6} \phantom{+(-3)e^5} + (9)e^4 + (1)e^3 + (-7)e^2 + (3)e + (-2) \\
 \phantom{(-e-1)e^2} \phantom{(-3)e^6} \phantom{+(-3)e^5} + (9e^4) + (9e^3) \phantom{+(-7)e^2} \phantom{+(3)e} \phantom{+(-2)} \\
 \phantom{(-e-1)e^2} \phantom{(-3)e^6} \phantom{+(-3)e^5} \phantom{+(9)e^4} + (-8)e^3 + (-7)e^2 + (3)e + (-2) \\
 \phantom{(-e-1)e^2} \phantom{(-3)e^6} \phantom{+(-3)e^5} \phantom{+(9)e^4} + (-8e^3) + (-8e^2) \phantom{+(3)e} \phantom{+(-2)} \\
 \phantom{(-e-1)e^2} \phantom{(-3)e^6} \phantom{+(-3)e^5} \phantom{+(9)e^4} \phantom{+(-8)e^3} + (e^2) + (3e) + (-2)
 \end{array}$$

Coefficient list:

$\{3, 0, -9, 8\}$