

5.

Which of the following is the remainder of $-3e^3 + 2e^2 + 2e - 3$ divided by $e + 1$

$$\begin{array}{r}
 + (-3e^2) + (5e) + (-3) \\
 \hline
 e+1 \quad (-3)e^3 + (2)e^2 + (2)e + (-3) \\
 (-3e^3) + (-3e^2) \\
 + (5)e^2 + (2)e + (-3) \\
 + (5e^2) + (5e) \\
 + (-3)e + (-3) \\
 + (-3e) + (-3) \\
 + (0)
 \end{array}$$