

4.

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

$$\begin{array}{r}
 + (3e^2) + (-4e) + (9) \\
 \hline
 e+2 \quad (3)e^3 + (2)e^2 + (-1) \\
 (3e^3) + (6e^2) \\
 + (-4)e^2 + (1)e \\
 + (-4e^2) + (-8e) \\
 + (9e) \\
 + (9e) + (18) \\
 + (-19)
 \end{array}$$