5.

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

$$
\begin{array}{r|llll}
 & & +(\boxed{-e^2}) & +(\boxed{2e}) & +(\boxed{3}) \\
\hline
\boxed{e} & (-1)e^3 & +(2)e^2 & +(3)e & +(-3) \\
 & (\boxed{-e^3}) & & & \\
 & & +(2)e^2 & +(3)e & +(-3) \\
 & & +(\boxed{2e^2}) & & \\
 & & & +(3)e & +(-3) \\
 & & & +(\boxed{3e}) & \\
 & & & & +(\boxed{-3}) \\
\end{array}
$$