## 5.

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

$$
\begin{array}{r}
+(\boxed{j^2}) \quad +(\boxed{-3j}) \quad +(\boxed{2}) \\
\hline
j \; \big)\; (1)j^3 \;+(-3)j^2 \;+(2)j \;+(-3) \\
(\boxed{j^3}) \\
+(-3)j^2 \;+(2)j \;+(-3) \\
+(\boxed{-3j^2}) \\
+(2)j \;+(-3) \\
+(\boxed{2j}) \\
+(\boxed{-3})
\end{array}
$$