

5.

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

$$\begin{array}{r}
 + (-3j^2) + (-12j) + (-34) \\
 \hline
 j-3 \quad (-3)j^3 + (-3)j^2 + (2)j + (-1) \\
 + (-3j^3) + (9j^2) \\
 + (-12)j^2 + (2)j + (-1) \\
 + (-12j^2) + (36j) \\
 + (-34)j + (-1) \\
 + (-34j) + (102) \\
 + (-103)
 \end{array}$$