

3.

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

$$\begin{array}{r}
 + (-3b^2) + (12b) + (-34) \\
 \hline
 b + 3 \quad (-3)b^3 + (3)b^2 + (2)b + (-3) \\
 (-3b^3) + (-9b^2) \\
 + (12)b^2 + (2)b + (-3) \\
 + (12b^2) + (36b) \\
 + (-34)b + (-3) \\
 + (-34b) + (-102) \\
 + (99)
 \end{array}$$