4.

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

$$
\begin{array}{r}
 \quad +(\boxed{-2b^2}) \quad +(\boxed{9b}) \quad +(\boxed{-24}) \\
\hline
\boxed{b+3} \quad (-2)b^3 \quad +(3)b^2 \quad +(3)b \quad +(2) \\
(\boxed{-2b^3}) \quad +(\boxed{-6b^2}) \\
+(9)b^2 \quad +(3)b \quad +(2) \\
+(\boxed{9b^2}) \quad +(\boxed{27b}) \\
+(-24)b \quad +(2) \\
+(\boxed{-24b}) \quad +(\boxed{-72}) \\
+(\boxed{74})
\end{array}
$$