4.

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

$$
\begin{array}{l|llll}
 & & +(-2z^2) & +(8z) & +(-27) \\
\hline
z+3 & (-2)z^3 & +(2)z^2 & +(-3)z & +(-2) \\
 & (-2z^3) & +(-6z^2) & & \\
 & & +(8)z^2 & +(-3)z & +(-2) \\
 & & +(8z^2) & +(24z) & \\
 & & & +(-27)z & +(-2) \\
 & & & +(-27z) & +(-81) \\
 & & & & +(79)
\end{array}
$$