

4.

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

$$\begin{array}{r}
 + (-3w^2) + (-11w) + (-36) \\
 \hline
 w-3 \quad (-3)w^3 + (-2)w^2 + (-3)w + (-1) \\
 + (-3w^3) + (9w^2) \\
 + (-11)w^2 + (-3)w + (-1) \\
 + (-11w^2) + (33w) \\
 + (-36)w + (-1) \\
 + (-36w) + (108) \\
 + (-109)
 \end{array}$$