4.

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

$$
\begin{array}{r}
+ (\boxed{w^2}) \quad + (\boxed{-w}) \quad + (\boxed{2}) \\
\hline
\boxed{w} \quad (1)w^3 \quad + (-1)w^2 \quad + (2)w \\
(\boxed{w^3}) \\
+ (-1)w^2 \quad + (2)w \\
+ (\boxed{-w^2}) \\
+ (2)w \\
+ (\boxed{2w}) \\
+ (\boxed{0})
\end{array}
$$