

4.

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

$$\begin{array}{r}
 \phantom{v} + (\boxed{v^2}) \phantom{+ (2v)} + (\boxed{2v}) \phantom{+ (-2)} + (\boxed{-2}) \\
 \hline
 \boxed{v} \phantom{+ (2v^2)} + (\boxed{1})v^3 + (\boxed{2})v^2 + (\boxed{-2})v + (\boxed{2}) \\
 (\boxed{v^3}) \\
 \phantom{+ (2v^2)} + (\boxed{2})v^2 + (\boxed{-2})v + (\boxed{2}) \\
 \phantom{+ (2v^2)} + (\boxed{2v^2}) \\
 \phantom{+ (2v^2)} + (\boxed{-2})v + (\boxed{2}) \\
 \phantom{+ (2v^2)} + (\boxed{-2v}) \\
 \phantom{+ (2v^2)} + (\boxed{2})
 \end{array}$$