

4.

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

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