3.

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

$$
\begin{array}{r}
+(\boxed{k^2}) \qquad +(\boxed{-2k}) \quad +(\boxed{-2}) \\
\hline
\boxed{k} \quad (1)\,k^3 \;+(-2)\,k^2 \qquad +(-2)\,k \qquad +(2) \\
(\boxed{k^3}) \\
+(-2)\,k^2 \qquad +(-2)\,k \qquad +(2) \\
+(\boxed{-2k^2}) \\
+(-2)\,k \qquad +(2) \\
+(\boxed{-2k}) \\
+(\boxed{2})
\end{array}
$$