2.

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

$$
\begin{array}{r|llll}
 & & +(\boxed{z^2}) & +(\boxed{-2z}) & +(\boxed{-3}) \\
\hline
\boxed{z-1} & (1)z^3 & +(-3)z^2 & +(-1)z & +(3) \\
 & (\boxed{z^3}) & +(\boxed{-z^2}) & & \\
 & & +(-2)z^2 & +(-1)z & +(3) \\
 & & +(\boxed{-2z^2}) & +(\boxed{2z}) & \\
 & & & +(-3)z & +(3) \\
 & & & +(\boxed{-3z}) & +(\boxed{3}) \\
 & & & & +(\boxed{0})
\end{array}
$$