2.

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

$$
\begin{array}{r|rrr}
 & +(n^2) & +(2n) & +(1) \\
\hline
n+1 & (1)n^3 & +(3)n^2 & +(3)n & +(1) \\
 & (n^3) & +(n^2) & & \\
 & & +(2)n^2 & +(3)n & +(1) \\
 & & +(2n^2) & +(2n) & \\
 & & & +(1)n & +(1) \\
 & & & +(n) & +(1) \\
 & & & & +(0)
\end{array}
$$