

2.

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

$$\begin{array}{r}
 \phantom{n+1} + (\boxed{n^2}) \phantom{+ (3)n} + (\boxed{2n}) + (\boxed{1}) \\
 \hline
 \boxed{n+1} \phantom{+ (3)n} (1)n^3 + (3)n^2 + (3)n + (1) \\
 \phantom{n+1} (\textcircled{n^3}) + (\textcircled{n^2}) \\
 \phantom{n+1} + (2)n^2 + (3)n + (1) \\
 \phantom{n+1} + (\textcircled{2n^2}) + (\textcircled{2n}) \\
 \phantom{n+1} \phantom{+ (2)n^2} + (1)n + (1) \\
 \phantom{n+1} \phantom{+ (2)n^2} + (\textcircled{n}) + (\textcircled{1}) \\
 \phantom{n+1} \phantom{+ (2)n^2} \phantom{+ (1)n} + (\boxed{0})
 \end{array}$$