

2.

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

$$\begin{array}{r}
 \phantom{p+1} + (\boxed{-p^2}) \phantom{+ (-3)p^2} + (\boxed{-2p}) \phantom{+ (-3)p} + (\boxed{-1}) \\
 \hline
 \boxed{p+1} \quad (-1)p^3 + (-3)p^2 + (-3)p \\
 \phantom{p+1} (\boxed{-p^3}) + (\boxed{-p^2}) \\
 \phantom{p+1} + (-2)p^2 + (-3)p \\
 \phantom{p+1} + (\boxed{-2p^2}) + (\boxed{-2p}) \\
 \phantom{p+1} \phantom{+ (-2)p^2} + (-1)p \\
 \phantom{p+1} \phantom{+ (-2)p^2} + (\boxed{-p}) + (\boxed{-1}) \\
 \phantom{p+1} \phantom{+ (-2)p^2} \phantom{+ (-1)p} + (\boxed{1})
 \end{array}$$