

1.

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

$$\begin{array}{r}
 + (\boxed{q^2}) + (\boxed{-4q}) + (\boxed{5}) \\
 \hline
 \boxed{q+1} (1)q^3 + (-3)q^2 + (1)q + (1) \\
 (\textcircled{q^3}) + (\textcircled{q^2}) \\
 + (-4)q^2 + (1)q + (1) \\
 + (\textcircled{-4q^2}) + (\textcircled{-4q}) \\
 + (5)q + (1) \\
 + (\textcircled{5q}) + (\textcircled{5}) \\
 + (\boxed{-4})
 \end{array}$$