

5.

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

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