

5.

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

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