

2.

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

$$\begin{array}{r}
 + (\boxed{j^2}) + (\boxed{3j}) + (\boxed{10}) \\
 \hline
 \boxed{j-3} + (\boxed{1})j^3 + (\boxed{1})j + (\boxed{-2}) \\
 (\boxed{j^3}) + (\boxed{-3j^2}) \\
 + (\boxed{3})j^2 + (\boxed{1})j + (\boxed{-2}) \\
 + (\boxed{3j^2}) + (\boxed{-9j}) \\
 + (\boxed{10})j + (\boxed{-2}) \\
 + (\boxed{10j}) + (\boxed{-30}) \\
 + (\boxed{28})
 \end{array}$$