

1.

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

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