

5.

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

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