

1.

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

$$\begin{array}{r}
 + (3u^2) + (9u) + (18) \\
 \hline
 u-2 \quad (3)u^3 + (3)u^2 \\
 + (3u^3) + (-6u^2) \\
 + (9)u^2 \\
 + (9u^2) + (-18u) \\
 + (18)u \\
 + (18u) + (-36) \\
 + (36)
 \end{array}$$