

3.

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

$$\begin{array}{r}
 + (3r^2) + (6r) + (16) \\
 \hline
 r-3 \quad (3)r^3 + (-3)r^2 + (-2)r + (-1) \\
 (3r^3) + (-9r^2) \\
 + (6)r^2 + (-2)r + (-1) \\
 + (6r^2) + (-18r) \\
 + (16)r + (-1) \\
 + (16r) + (-48) \\
 + (47)
 \end{array}$$