

2.

Which of the following is the quotient of  $3q^3 - q^2 - 1$  divided by  $q - 3$

$$\begin{array}{r}
 \phantom{q-3} + (3q^2) + (8q) + (24) \\
 \hline
 q-3 \quad (3)q^3 + (-1)q^2 + (-1) \\
 \phantom{q-3} (3q^3) + (-9q^2) \\
 \phantom{q-3} + (8)q^2 + (-1) \\
 \phantom{q-3} + (8q^2) + (-24q) \\
 \phantom{q-3} + (24)q + (-1) \\
 \phantom{q-3} + (24q) + (-72) \\
 \phantom{q-3} + (71)
 \end{array}$$