

Which of the following is the quotient of $-2n^3 + 2n^2 - 2$ divided by $n + 3$?

$$\begin{array}{r}
 + (-2n^2) + (8n) + (-24) \\
 \hline
 n + 3 \quad (-2)n^3 + (2)n^2 + (-2) \\
 \quad (-2n^3) + (-6n^2) \\
 \quad \quad + (8)n^2 + (-2) \\
 \quad \quad + (8n^2) + (24n) \\
 \quad \quad \quad + (-24)n + (-2) \\
 \quad \quad \quad + (-24n) + (-72) \\
 \quad \quad \quad \quad + (70)
 \end{array}$$