

5.

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

$$\begin{array}{r}
 + (\boxed{-z^2}) + (\boxed{-15}) \\
 \hline
 \boxed{z + 3} + (2)z^2 \\
 + (\boxed{-z^3}) + (\boxed{-3z^2}) \\
 + (5)z^2 \\
 + (\boxed{5z^2}) + (\boxed{15z}) \\
 + (\boxed{-15z}) + (\boxed{-45}) \\
 + (\boxed{42})
 \end{array}$$