5.

Which of the following is the quotient of $b^3 - 3b - 3$ divided by $b + 1$

$$
\begin{array}{r}
+\left(\boxed{b^2}\right) \quad +\left(\boxed{-b}\right) \quad +\left(\boxed{-2}\right) \\
\hline
\boxed{b+1} \quad (1)\,b^3 \qquad\qquad +(-3)\,b \qquad +(-3) \\
\left(\boxed{b^3}\right) \; +\left(\boxed{b^2}\right) \\
+(-1)\,b^2 \quad +(-3)\,b \qquad +(-3) \\
+\left(\boxed{-b^2}\right) \; +\left(\boxed{-b}\right) \\
+(-2)\,b \qquad +(-3) \\
+\left(\boxed{-2b}\right) \; +\left(\boxed{-2}\right) \\
+\left(\boxed{-1}\right)
\end{array}
$$