2.

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

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