4.

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

$$
\begin{array}{l}
\;\; +(\boxed{2f^2}) \quad +(\boxed{-4f}) \quad +(\boxed{11}) \\
\hline
\boxed{f+2}\;\bigg|\;\; (2)f^3 \qquad\qquad +(3)f \qquad +(-2) \\
\;\; (\boxed{2f^3}) \;\; +(\boxed{4f^2}) \\
\;\; \qquad\quad +(-4)f^2 \quad +(3)f \qquad +(-2) \\
\;\; \qquad\quad +(\boxed{-4f^2}) \;\; +(\boxed{-8f}) \\
\;\; \qquad\qquad\qquad\;\; +(11)f \qquad +(-2) \\
\;\; \qquad\qquad\qquad\;\; +(\boxed{11f}) \qquad +(\boxed{22}) \\
\;\; \qquad\qquad\qquad\qquad\qquad\quad +(\boxed{-24})
\end{array}
$$